SAMSUNG

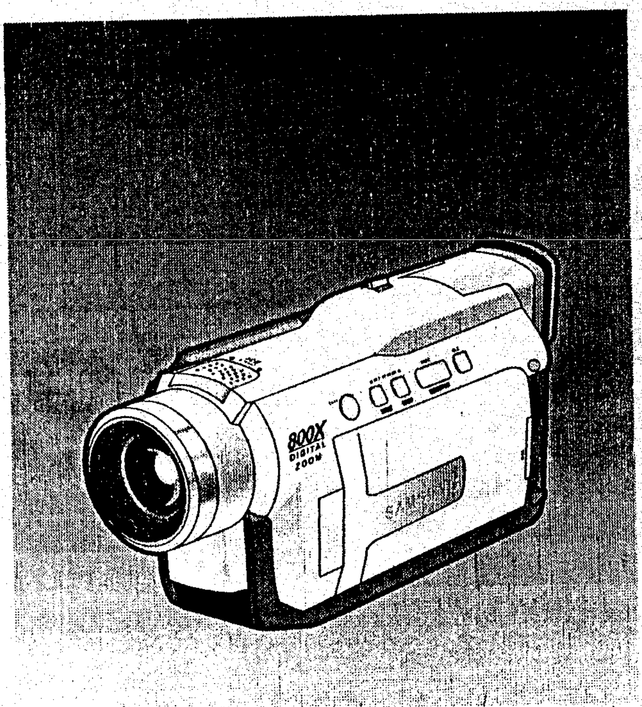
DIGITAL CAMCORDER

VP-D20/D21/D23/D24/D26
D20i/D21i/D23i/D24i/D26i

SERVICE Manual

For mechanical disassembly and adjustment, refer to the "Mechanical Manual" (CSM2000 ⟶ AD68-30200A).

DIGITAL CAMCORDER



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1. Exploded View and Parts List

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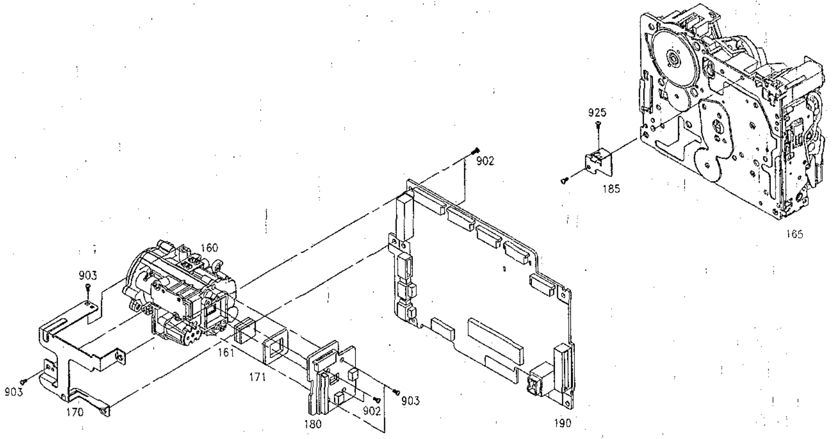
1-1 Ass'y Lens/Deck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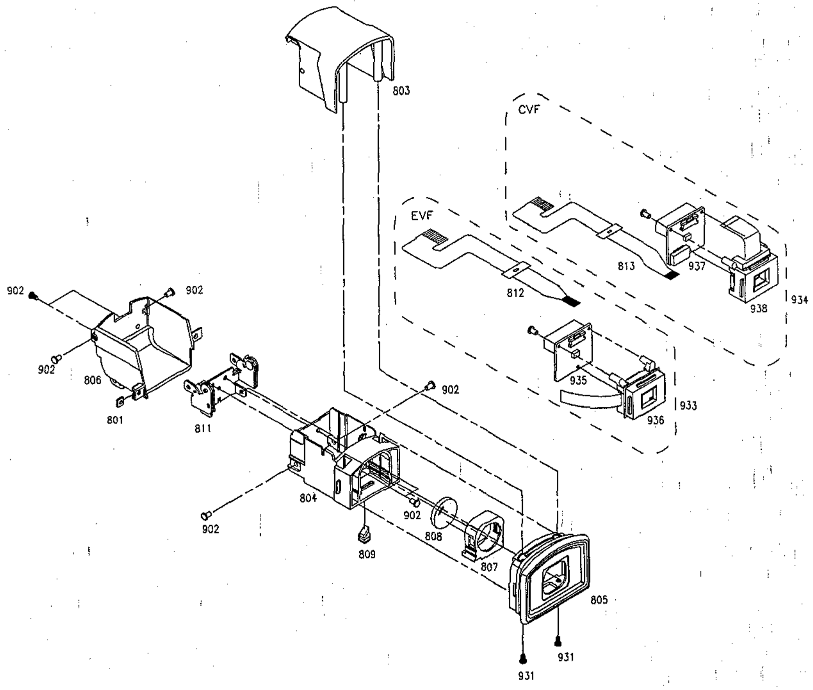
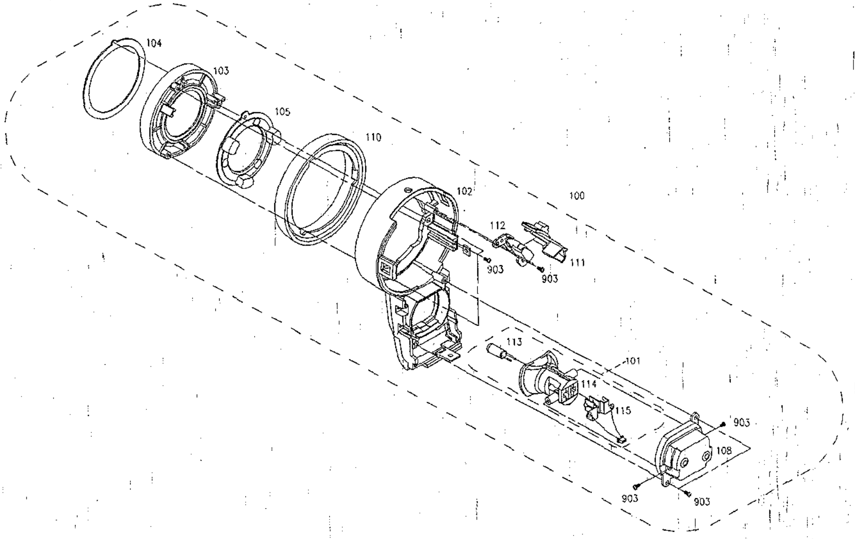
Loc. No	New Part No	Description and Specification	Remark
165	AD97-04896A	ASSY-DECK;-,CSM2000,ALPA,BETA	
160	AD97-05140A	ASSY-LENS;-,DVC10X,SUML	
161	AD29-00019A	FILTER-OPTICAL LPF;-,VP-D73,-,-,3.4X4.5X	
170	AD61-01114A	BRACKET-LENS;DELTA-PJ,SUS304 1/2H,T0.5,-	
171	AD60-00053A	SPACER-CCD;ALPHA_PJ,SILICON,-,-,-,BLK,-,	
180	AD97-06418A	ASSY-CCD;DELTA-PJ, NTSC	NTSC only
180	AD97-06417A	ASSY-CCD;DELTA-PJ, PAL	PAL only
185	AD63-00414A	SHIELD-CASE P/AMP;DELTA-PJ,SUS T0.2,-,-,	
902	AC60-10028A	SCREW-MACHINE;-,-,ZPC,FE,+,M1.7,-,X3,-,-	
903	AC60-12128A	SCREW-TAP TITE BH;-,-,-,FE,BH,4 1.7,l4,-	
190	AD97-06532J	ASSY-MAIN BOARD	VP-D20
190	AD97-06532A	ASSY-MAIN BOARD	VP-D21
190	AD97-06532B	ASSY-MAIN BOARD	VP-D23
190	AD97-06532C	ASSY-MAIN BOARD	VP-D24
190	AD97-06532D	ASSY-MAIN BOARD	VP-D26
190	AD97-06532K	ASSY-MAIN BOARD	VP-D20i
190	AD97-06532E	ASSY-MAIN BOARD	VP-D21i
190	AD97-06532F	ASSY-MAIN BOARD	VP-D23i
190	AD97-06532G	ASSY-MAIN BOARD	VP-D24i
190	AD97-06532H	ASSY-MAIN BOARD	VP-D26i

1-2 Ass'y EVF/CVF



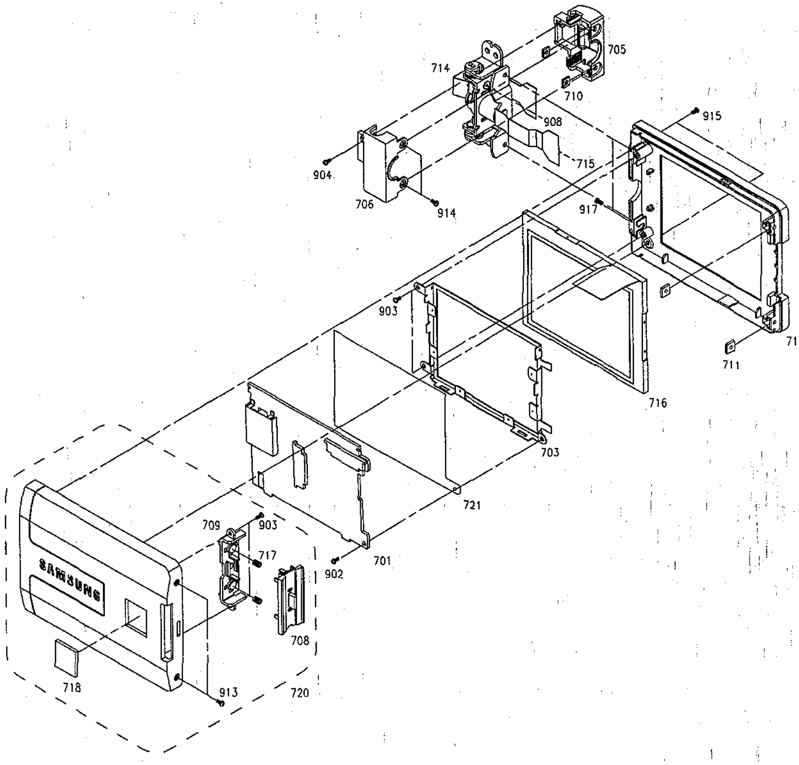
Loc. No	New Part No	Description and Specification	Remark
801	AD61-12033A	BRACKET-NUT;SV-D10,T0.8,-,-,-,-,T0.8	
803	AD61-01130A	CASE-EVF TOP;DELTA-PJ,ABS 94V0 VE0812,-,	
804	AD61-01129A	CASE-EVF BOTTOM;DELTA-PJ,ABS 94V0 VE0812	
805	AD73-00088A	RUBBER-EYE CUP;DELTA-PJ,SILICON,-,-,-,D/	
806	AD61-01145A	GUIDE-LINK;DELTA-PJ,PC ,-,-,-,-	
807	AD61-01113A	HOLDER-EVF LENS;DELTA-PJ,ABS 94HB BLK,-,	
808	AD67-00194A	LENS-EVF 14X G1;DELTA-PJ,OPT PLASTIC PMM	
809	AD64-00939A	KNOB-EVF;DELTA-PJ,POM 94HB BLK,-,-,-,-,	
811	AD97-06450A	ASSY-LINK EVF;,DELTA-PJ,	
812	AD41-00374A	FPC-EVF;DELTA-PJ,-,POLYMIDE,-,0.3T	
813	AD41-00373A	FPC-CVF;DELTA-PJ	
902	AC60-10028A	SCREW-MACHINE;-,-,ZPC,FE,+,M1.7,-,X3,-,-	
931	6003-001142	SCREW-TAPTITE;CH,+,B,M1.7,L5,NI PLT,SRWC	
933	AD97-07160A	ASSY-UNIT-EVF;0.24NTSC,DELTA-PJ,UNIT-EV	NTSC EVF only
933	AD97-07159A	ASSY-UNIT-EVF;0.24PAL,DELTA-PJ,UNIT-EV	PAL EVF only
934	AD97-06484A	ASSY-UNIT-CVF;0.24,DELTA-PJ,UNIT-CV	CVF only
936	AD07-00009A	LCD-PANNEL;-,MCVVQ410(320),VP-D50,0.24IN	EVF only
935	AD97-06506A	ASSY-EVF BOARD;DVC,SC-D23,EVF BOARD	EVF only
937	AD97-06616A	ASSY-CVF BOARD;DVC	CVF only
938	AD07-00035A	LCD-PANNEL;-,LCX042AK	CVF only

1-3 Ass'y Front



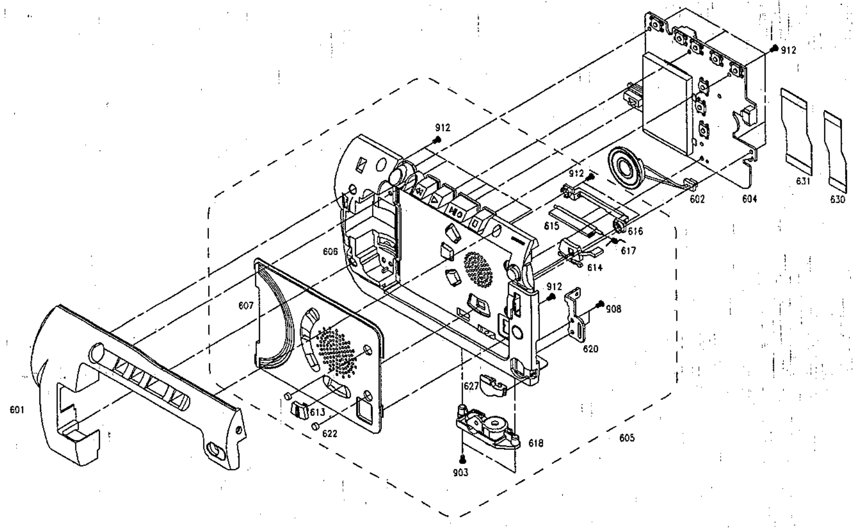
Loc. No	New Part No	Description and Specification	Remark
100	AD97-06482A	ASSY-FRONT;,DELTA,PAL,N/PIX,800X,LIGHT(O)	PAL only, LIGHT (O)
100	AD97-06482B	ASSY-FRONT;,DELTA,NT,N/PIX,800X,LIGHT(O)	NTSC only, LIGHT (O)
100	AD97-06482C	ASSY-FRONT;,DELTA,PAL,N/PIX(X)802X,LIGHT(X)	PAL only, LIGHT (X)
100	AD97-06482D	ASSY-FRONT;,DELTA,NT,N/PIX(X),803X,LIGHT(X)	NTSC only, LIGHT (X)
101	AD97-06488A	ASSY-VIDEO LIGHT;.,DELTA-PJ,VIDEO LIGHT	
103	AD61-01122A	HOLDER-LENS HOOD;DELTA-PJ,PC 94HB BLACK,	
104	AD64-00639B	INLAY-LENS;DELTA-PJ,PVC,T0.3,,,BLK,SILK	
105	AD73-00089A	RUBBER-HOOD;DELTA-PJ,SILICON 60,-,-,-,D/	
110	AD67-00195A	LENS-HOOD;DELTA-PJ,ABS 94HB NATURAL,-,-,	
111	AD64-00941A	KNOB-NITE-PIX;DELTA-PJ,SUS304-WPB.	
112	AD61-01128A	HOLDER-NITE-PIX;DELTA-PJ,ABS 94HB BLACK,	
113	AD47-00008A	LAMP;TXL38H-601F,-,3.8,9.5,-,BOX,50	
903	AC60-12128A	SCREW-TAP TITE BH;-,-,-,FE,BH,4 1.7,l4,-	

1-4 Ass'y LCD



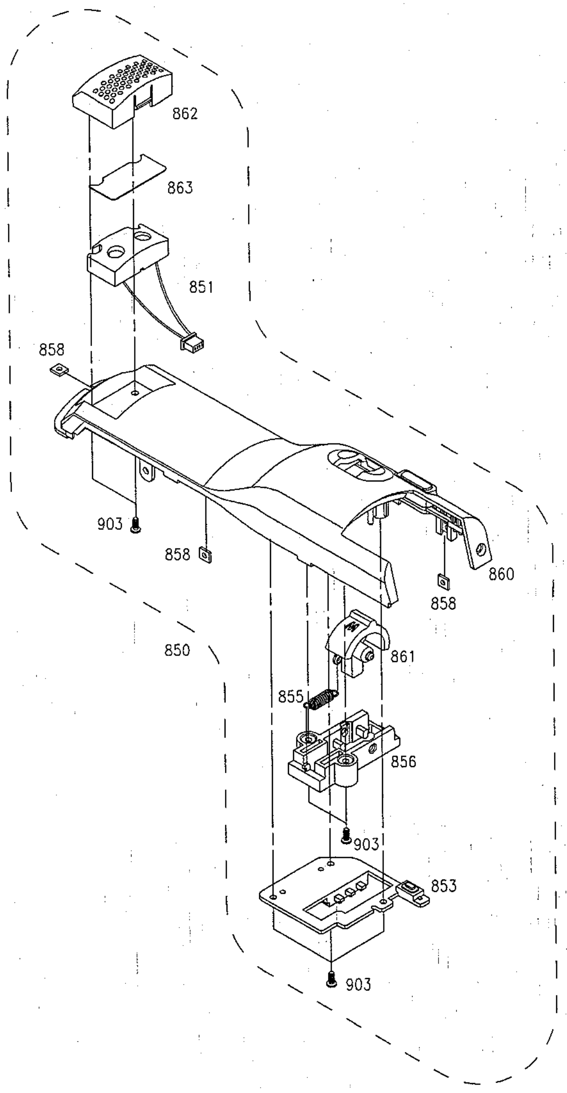
Loc. No	New Part No	Description and Specification	Remark
701	AD97-06158A	ASSY-LCD BOARD;DELTA(PVI2.5" LCD),NTSC	2.5" NTSC only
701	AD97-06545A	ASSY-LCD BOARD;DELTA(PVI2.5" LCD),PAL	2.5" PAL only
701	AD97-06519A	ASSY-LCD BOARD;DELTA(PVI3.5" LCD),NTSC	3.5" NTSC only
701	AD97-06546A	ASSY-LCD BOARD;DELTA(PVI3.5" LCD),PAL	3.5" PAL only
703	AD97-04556A	ASSY-BL;-,BETA-PJ,2.5",3T,RGBLU25	2.5" only
703	AD97-06358A	ASSY-BL;-,3.5",	3.5" only
705	AD63-00396A	COVER-HINGE BOTTOM 2.5";DELTA-PJ,ABS 94V	2.5" only
705	AD63-00397A	COVER-HINGE BOTTOM 3.5";DELTA-PJ,ABS 94V	3.5" only
706	AD63-00398A	COVER-HINGE TOP 2.5";DELTA-PJ,ABS 94V0,-	2.5" only
706	AD63-00399A	COVER-HINGE TOP 3.5";DELTA-PJ,ABS 94V0,-	3.5" only
708	AD64-00959A	KNOB-LCD 2.5";DELTA-PJ,ABS 94V0,-,-,-,-,	2.5" only
708	AD64-00960A	KNOB-LCD 3.5";DELTA-PJ,ABS 94V0,-,-,-,-,	3.5" only
709	AD61-01172A	HOLDER-LCD 2.5";DELTA-PJ,POM,-,-,-,-,-	2.5" only
709	AD61-01173A	HOLDER-LCD 3.5";DELTA-PJ,POM,-,-,-,-,-	3.5" only
710	AD61-12033A	BRACKET-NUT;SV-D10,T0.8,-,-,-,-,T0.8	
711	AD61-01207A	BRACKET-NUT;DELTA-PJ,SECC,T0.8,4,4,,M1.4	
712	AD61-01132A	CASE-LCD BOTTOM (PVI2.5");DELTA-PJ,ABS 94	2.5" only
712	AD61-01134A	CASE-LCD BOTTOM (PVI3.5");DELTA-PJ,ABS 94	3.5" only
714	AD97-06065A	ASSY-HINGE;-,DELTA-PJ,ASSY-HINGE	
715	AD97-06489A	ASSY-LCD FPC;.,DELTA-PJ,LCD FPC	2.5" only
715	AD97-06668A	ASSY-LCD FPC;.,DELTA-PJ,LCD FPC	3.5" only
716	AD07-00030A	LCD;PA025XS5-DVC,D4-PJ,-,61.6*49.3	2.5" only
716	AD07-00034A	LCD;PA035XS2	3.5" only
717	AD61-01206A	SPRING ETC-LCD;DELTA-PJ,SUS304,WPB,,,OD4	
718	AD64-01040A	INLAY-MS 2.5";DELTA-PJ,PC,T0.65,W12,	
720	AD97-07208A	ASSY-CASE LCD TOP	2.5" MS(O) NTSC only
720	AD97-07208B	ASSY-CASE LCD TOP	2.5" MS(O)
720	AD97-07208C	ASSY-CASE LCD TOP	2.5" MS(O) PAL only
720	AD97-07208D	ASSY-CASE LCD TOP	2.5" MS(X) NTSC only
720	AD97-07208E	ASSY-CASE LCD TOP	2.5" MS(X)
720	AD97-07208F	ASSY-CASE LCD TOP	2.5" MS(X) PAL only
721	AD62-00027A	INSULATION-BACK LIGHT;BETA-PJ,PVC,-,-,-,	2.5" only
721	AD62-00030A	INSULATION-BACK LIGHT;BETA-PJ,PVC,-,-,-,	3.5" only
902	AC60-10028A	SCREW-MACHINE;-,-,ZPC,FE,+,M1.7,-,X3,-,-	
903	AC60-12128A	SCREW-TAP TITE BH;-,-,-,FE,BH,4 1.7,I4,-	
904	AC60-12128B	SCREW-TAPTITE;-,-,1.7,4,BH,-,TAP,1.7,-,-	
908	6003-001291	SCREW-TAPTITE;CH,+,B,M1.4,L3.0,ZPC(BLK),	
913	6001-001545	SCREW-MACHINE;PH,+,M1.4,L3.0,ZPC(WHT),SW	
914	6001-001659	SCREW-MACHINE;CH,+,M1.7,L2.5,NI PLT,SWRC	
915	6003-001143	SCREW-TAPTITE;PH,+,B,M1.7,L6,NI PLT,SWRC	
917	AD60-00002A	SCREW MACHINE;-,-,-,-,-,-,-,A3-PJ,-,M2X4	

1-5 Ass'y Left



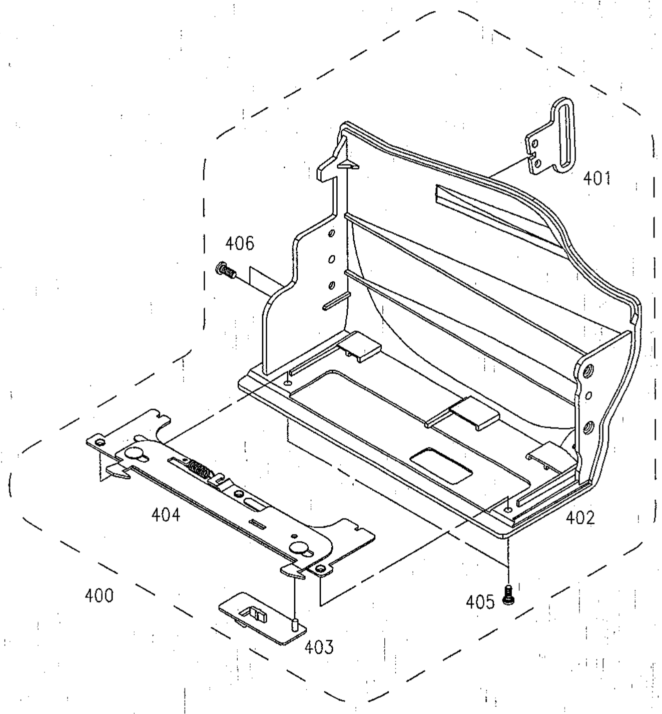
Loc. No	New Part No	Description and Specification	Remark
601	AD63-00403A	COVER-LEFT 2.5";DELTA-PJ,ABS 94HB,-,-,-,	2.5"
601	AD63-00403B	COVER-LEFT 2.5";DELTA-PJ,ABS 94HB,-,-,-,	2.5"
601	AD63-00410A	COVER-LEFT 3.5";DELTA-PJ,ABS 94HB,-,-,-,	3.5"
601	AD63-00410B	COVER-LEFT 3.5";DELTA-PJ,ABS 94HB,-,-,-,	3.5"
602	AD97-02047A	ASSY-SPEAKER;-,VP-D65,ASSY-SPEAKER	
604	AD97-06444A	ASSY-LEFT BOARD;DELTA-PJ,SC-D23,ASSY LEF	
605	AD97-06479B	ASSY-UNIT CASE LEFT;,DELTA,	VP-D20/21
605	AD97-06479E	ASSY-UNIT CASE LEFT;,DELTA,	VP-D23/24
605	AD97-06479H	ASSY-UNIT CASE LEFT;,DELTA,	VP-D26
605	AD97-06479L	ASSY-UNIT CASE LEFT;,DELTA,	VP-D20
607	AD63-00395A	COVER-DUMMY 2.5";DELTA-PJ,ABS 94HB,-,-,-	VP-D23/24
607	AD63-00395C	COVER-DUMMY 2.5";DELTA-PJ,ABS 94HB,-,-,-	VP-D21
607	AD63-00395F	COVER-DUMMY 2.5";DELTA-PJ,ABS 94HB,-,-,-	VP-D20
607	AD63-00411C	COVER-DUMMY 3.5";DELTA-PJ,ABS 94HB,-,-,-	
607	AD63-00411D	COVER-DUMMY 3.5";DELTA-PJ,ABS 94HB,-,-,-	
613	AD64-00943A	KNOB-SELECT;DELTA-PJ,ABS 94HB,-,-,-,-,BL	
614	AD61-01138A	HOLDER-SELECT;DELTA-PJ,ABS 94HB,-,-,-,-,	2.5"
614	AD61-01240A		3.5"
615	AD63-00394A	COVER-DOOR M/S;DELTA-PJ,ABS 94HB,-,-,-,-	
616	AD61-01100A	HOLDER-DOOR M/S;DELTA-PJ,ABS 94HB,-,-,-,	2.5"
616	AD61-01241A		3.5"
617	AD61-01028A	SPRING ETC-DOOR M/S;BETA-PJ,SUS304 WPB,-	
618	AD61-01170A	BRACKET-TRIPOD;DELTA-PJ,PC,-,-,-,-,-	
620	AD61-01118A	BRACKET-SHOULDER;DELTA-PJ,SUS304,T1,-,-,	
621	AD63-00393A	COVER-DC JACK;DELTA-PJ,TPE,-,-,-,-,-,-,?	
622	AD69-00045B	PAD-LCD;DELTA-PJ,PORON,T1.5,-,-,-,L-GR	
630	3809-001435	FFC CABLE-FLAT;-,-,100MM,10P,0.5MM,-	
631	3809-001438	FFC CABLE-FLAT;-,-,100MM,45P,0.5MM,-	
903	AC60-12128A	SCREW-TAP TITE BH;-,-,-,FE,BH,4 1.7,I4,-	
908	6003-001291	SCREW-TAPTITE;CH,+,B,M1.4,L3.0,ZPC(BLK),	

1-6 Ass'y TOP



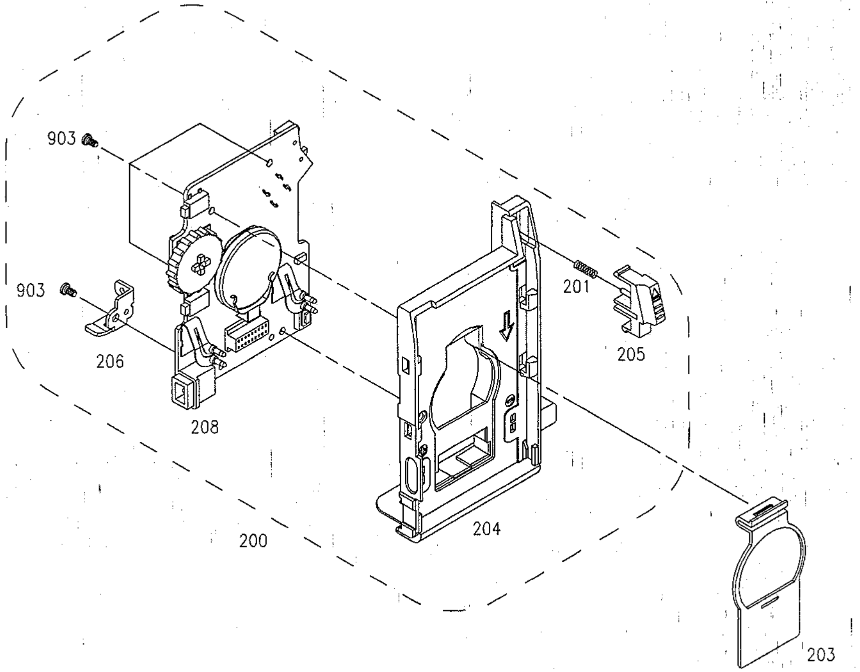
Loc. No	New Part No	Description and Specification	Remark
850	AD97-06485A	ASSY-TOP;.,DELTA-PJ,EXP	
851	AD97-06477A	ASSY-MIC;.,DELTA-PJ,ASSY MIC	
853	AD97-06439A	ASSY-TOP BOARD;.,SC-D23,ASSY TOP BOARD	
855	AD61-01032A	SPRING ETC-ZOOM;BETA-PJ,SUS,-,-,-,-,-,-,	
856	AD61-01140A	HOLDER-ZOOM;DELTA-PJ,POM,NAT,-,-,-,-,-	
858	AD61-12033A	BRACKET-NUT;SV-D10,T0.8,-,-,-,-,T0.8	
860	AD61-01143A	CASE-TOP;DELTA-PJ,ABS 94HB,-,-,-,-,-	
861	AD64-00944A	KNOB-ZOOM;DELTA-PJ,ABS,NAT,-,-,-,-,BLK,-	
862	AD64-00945A	GRILLE-MIC LEFT;DELTA-PJ,WIRE MASHI,T0.3	
863	AD63-00422A	SHEET-MIC	
903	AC60-12128A	SCREW-TAP TITE BH;-,-,-,FE,BH,4 1.7,I4,-	

1-7 Ass'y Cover Housing



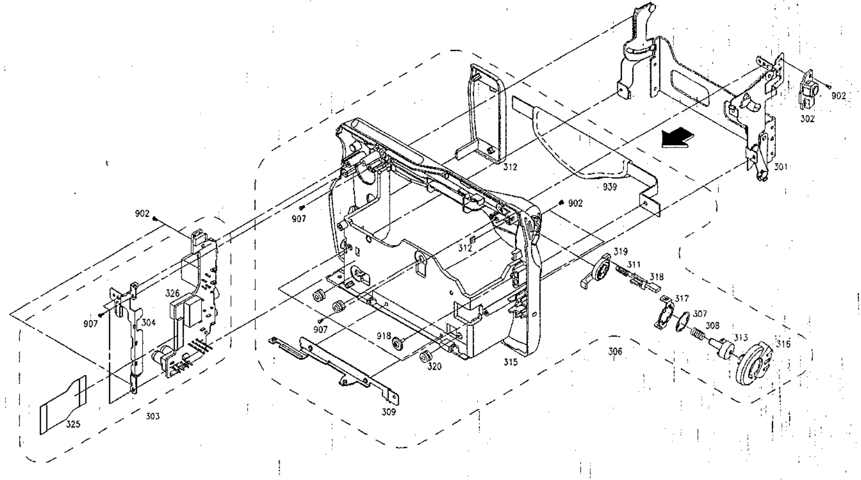
Loc. No	New Part No	Description and Specification	Remark
400	AD97-06480A	ASSY-COVER HOUSING;.,DELTA-PJ,EXP	
400	AD97-06480B	ASSY-COVER HOUSING;.,DELTA-PJ,DOM	
401	AD61-01001A	BRACKET-GRIP-FRONT;BETA-PJ,SUS304,T1.0,-	
402	AD63-00401A	COVER-HOUSING;DELTA-PJ,ABS 94HB,-,-,-,-,	
402	AD63-00401B	COVER-HOUSING;DELTA-PJ,ABS 94HB,-,-,-,-,	
403	AD64-00858B	KNOB-TAPE EJECT;DELTA-PJ,ABS 94HB,,,,,D/	
404	AD97-04814A	ASSY-TAPE EJECT;SUS,BETA-PJ,-	
405	6001-000805	SCREW-MACHINE;CH,+,M1.7,L3,NI PLT,SWRCH1	
406	6003-001143	SCREW-TAPTITE;PH,+,B,M1.7,L6,NI PLT,SWRC	

1-8 Ass'y Rear



Loc. No	New Part No	Description and Specification	Remark
200	AD97-06486A	ASSY-REAR;.,DELTA-PJ,EXP	
201	AD61-00798A	SPRING-BATTERY EJECT;D5-PJ,SWPB T0.2,-,-	
203	AD63-00418A	COVER-LITHIUM BATTERY;DELTA-PJ,PP,-,-,-,	
204	AD61-01141A	CASE-REAR;DELTA-PJ,ABS 94HB HF06601,G353	
205	AD64-00962A	KNOB-BATTERY EJECT;DELTA-PJ,ABS 94HB,-,-	
206	AD61-01112A	BRACKET-JOINT;DELTA-PJ,SECC,T0.8,-,-,-,-	
208	AD97-06507A	ASSY-REAR BOARD;DVC,SC-D23,REAR BOARD	
903	AC60-12128A	SCREW-TAP TITE BH;-,-,-,FE,BH,4 1.7,l4,-	

1-9 Ass'y Right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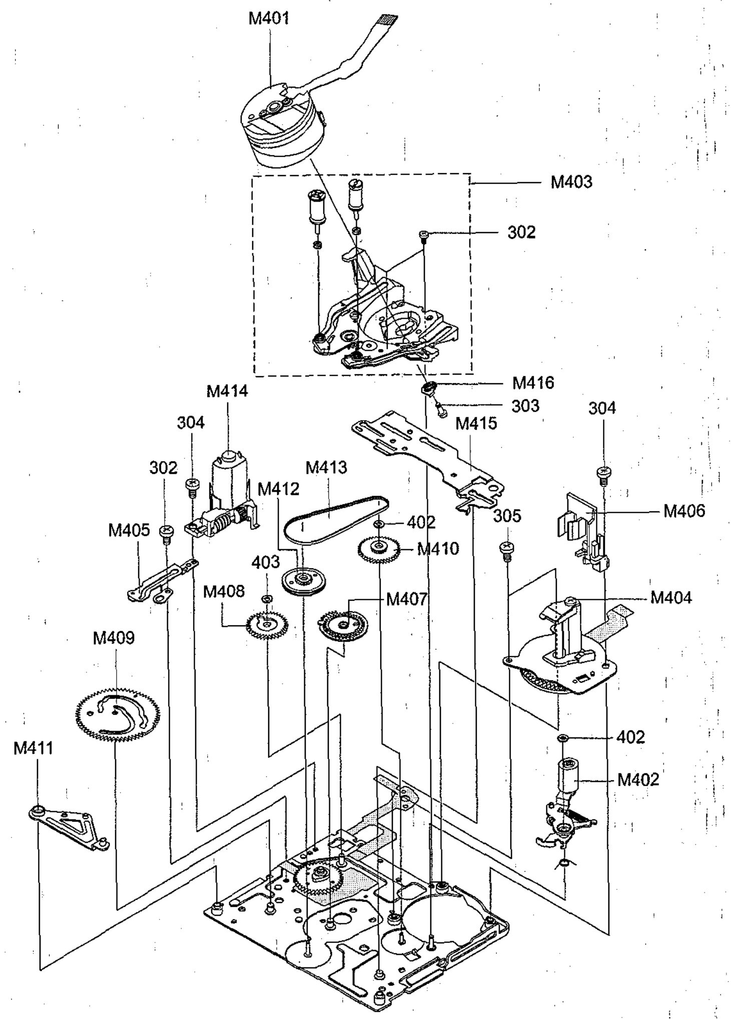
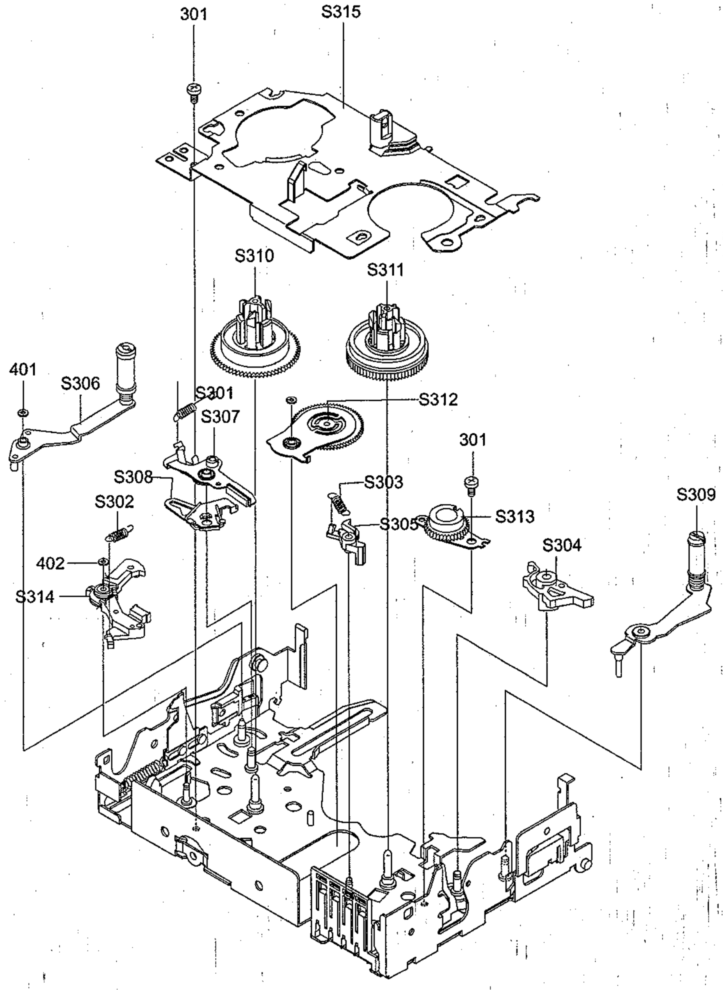
Loc. No	New Part No	Description and Specification	Remark
301	AD97-06066A	ASSY-LINK;-,DELTA-PJ,-	
302	AD97-06499A	ASSY-START/STOP;DVC,SC-D23,POWER	
303	AD97-06487A	ASSY-JACK;.,DELTA-PJ,ASSY JACK	
306	AD97-06481A	ASSY-CASE RIGHT;.,DELTA-PJ,EXP	
307	AD61-01169A	SPRING ETC-PLATE RECORD;DELTA-PJ,SUS 1/2	
308	AD61-60521A	SPRING-REC;SC-80,SWPB,4.3,-,-,-,-,-,-,-,	
309	AD61-01116A	BRACKET-RIGHT;DELTA-PJ,SUS,T0.8,-,-,-,-	
311	AD61-60601A	SPRING-KNOB POWER;-,SUS304 WPB,-,-,-,-,-	
312	AD63-00402A	COVER-JACK;DELTA-PJ,TPH,-,-,-,-,-,-,-	
313	AD64-00936A	BUTTON-POWER RECORD;DELTA-PJ,ABS 94HB,-,	
316	AD64-00942A	KNOB-POWER;DELTA-PJ,ABS 94HB,-,-,-,-,BLK	
317	AD61-01146A	PLATE-POWER;DELTA-PJ,SUS T0.5,T0.2,-,-,-	
318	AD64-00947A	LOCKER-SAFETY POWER;DELTA-PJ,ABS 94HB,-,	
319	AD66-00190A	SLIDER-POWER;DELTA-PJ,POM,-,-,-,NAT,-	
320	AD73-00006A	RUBBER—GUIDE DECK;BUTHYL RUB,-,VP-D50,-	
321	AD61-12033A	BRACKET-NUT;SV-D10,T0.8,-,-,-,-,T0.8	
323	AD97-06064A	ASSY-BELT GRIP;LEATHER,DELTA-PJ,-	
325	3809-001448	FPC CABLE FLAT, 24P	
902	AC60-10028A	SCREW-MACHINE;-,-,ZPC,FE,+,M1.7,-,X3,-,-	
907	6002-001085	SCREW-TAPPING;CH,+,2,M1.7,L5,ZPC(BLK),SW	
918	AD60-10509A	SCREW-TAP TITE;-,FE-ZN,M2X5,5,PWH,+,-,-,	

1-10 Mechanical Parts (1) (MAIN CHASSIS)



Loc. No	New Part No	Description and Specification	Remark
302	6001-001452	SCREW-MACHINE;BH,+,M1.4,L2.5,BLK,SWRCH18	
303	6001-001451	SCREW-MACHINE;TH,+,M1.4,L4.12,ZPC(YEL),S	
304	6001-001331	SCREW-MACHINE;BH,+,M1.4,L3.0,BLK(LOCK),S	
305	AC60-12113A	SCREW;-,BLK,L2.2,S45C-HC,BH,+,-,M1.4	
402	6031-001417	WASHER-PLAIN;POLYSLIDE,-,ID0.8,D3.0,T0.2	
403	6031-001419	WASHER-PLAIN;LUMINA,CUT,ID1.1,OD2.8,T0.2	
M401	AD97-02552A	ASSY-DRUM REV02;AHS+R/T+MOT+PBT,DD-3,ASS	
M402	AD97-02928A	ASSY-ARM-PINCH-FULL;-,DD-3,-	
M403	AD97-02931A	ASSY-DRUM BASE RAIL;-,DD-3,-	
M404	AD31-00028A	MOTOR-CAPSTAN;-,DD-3,-,-,-,-,-,-,-,-,-,-	
M405	AD61-00490A	GUIDE-TENSION CAM;DD-3,SUS430 CP,T0.3,-,	
M406	AD61-00496A	HOLDER-FPC SUB;DD-3,DURACON,-,-,-,-	
M407	AD66-00061A	GEAR-CONNECT;DD-3,POM,0.4/0.5,8.5/23,-,-	
M408	AD66-00064A	GEAR-WHEEL;DD-3,POM,0.3/05,30/8,-,-,PCD	
M409	AD66-00065A	GEAR CAM-MAIN;DD-3,SECC,0.5,50,-,-,PCD 2	
M410	AD66-00069A	GEAR-CAPSTAN;DD-3,DYAMID,0.4,28,-,-,PCD	
M411	AD66-00085A	LEVER-CAM;DD-3,SUS430 CP,T0.5,-,-,-,-,-	
M412	AD66-00098A	GEAR-PULLEY ASSY;DD-3,POM+MAGNET,-,-,-,-	
M413	AD66-62001A	BELT-TIMING;DD-C2R,POLYURETHAN,-,L84,-,-	
M414	AD97-02935A	ASSY-LOADING-MOTOR;-,DD-3,-	
M415	AD97-02987A	ASSY-SLIDE-MAIN;-,DD-3,-	
M416	AD61-00558A	PLATE-S/P BASE;DD-3,SUS632 CSP ,T0.15,-,	

1-11 Mechanical Parts (2) (SUB CHASSIS)



Loc. No	New Part No	Description and Specification	Remark
301	6001-001513	SCREW;BH,+,M1.4,D3.0 , WH	
401	6031-001430	WASHER-PLAIN;POLYSLIDER,-,ID0.8,D2.5,T0.	
402	6031-001417	WASHER-PLAIN;POLYSLIDE,-,ID0.8,D3.0,T0.2	
S301	AD61-00509A	SPRING-TENSION;DD-3,SUS304-WPB,•'0.12,-,	
S302	AD61-00513A	SPRING-BRAKE S;DD-3,SUS304-WPB,•'0.18,-,	
S303	AD61-00659A	SPRING-MAIN BRAKE T;DD-3,SWP-B,•'0.16,-,	
S304	AD66-00090A	LEVER-EJECT;DD-3,POM,-,-,-,-,-,-	
S305	AD66-00093A	BRAKE-MAIN T;DD-33,NYLON,-,-,-,-	
S306	AD66-00108A	ARM-TENSION-ASSY;DD-3,SUS304 CP+ETC,-,-,	
S307	AD97-02932A	ASSY-BRAKE-TENSION;-,DD-3,-	
S308	AD97-02933A	ASSY-RELEASE-T;-,DD-3,-	
S309	AD97-02934A	ASSY-REVIEW-ARM;-,DD-3,-	
S310	AD97-02938A	ASSY-REEL-DISK-S;-,DD-3,-	
S311	AD97-02939A	ASSY-REEL-DISK-T;-,DD-3,-	
S312	AD97-02940A	ASSY-IDLER;-,DD-3,-	
S313	AD97-02941A	ASSY-BRAKE-PULLEY;-,DD-3,-	
S314	AD97-02942A	ASSY-BRAKE-S;-,DD-3,-	
S315	AD97-05350A	ASSY-COVER REEL;SUS+ETC,CSM2000	

MEMO

2. Electrical Parts List

Loc. No	Part No	Desc & Spec	Remark
		ASSY-START/STOP BOARD	
CNS01	3711-005146	CONNECTOR-HEADER;BOX,3P,1R,1MM,SMD-A,SN,	
SWS01	3404-001171	SWITCH-TACT;12V DC,50MA,200GF,6.6X6X5MM,	
		ASSY-JACK BOARD	
BJ01	2901-001022	FILTER-EMI SMD;10V,200mA,-,-,1.6x0.8x0.8	
BJ02	2901-001022	FILTER-EMI SMD;10V,200mA,-,-,1.6x0.8x0.8	
BJ03	2901-001022	FILTER-EMI SMD;10V,200mA,-,-,1.6x0.8x0.8	
BJ04	2901-001022	FILTER-EMI SMD;10V,200mA,-,-,1.6x0.8x0.8	
BJ05	2901-001022	FILTER-EMI SMD;10V,200mA,-,-,1.6x0.8x0.8	
BJ06	2901-001022	FILTER-EMI SMD;10V,200mA,-,-,1.6x0.8x0.8	
BJ07	2901-001022	FILTER-EMI SMD;10V,200mA,-,-,1.6x0.8x0.8	
BJ08	2901-001022	FILTER-EMI SMD;10V,200mA,-,-,1.6x0.8x0.8	
BJ09	2901-001022	FILTER-EMI SMD;10V,200mA,-,-,1.6x0.8x0.8	
CJ01	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
CN01	3708-001340	CONNECTOR-FPC/FFC/PIC;24P,0.5mm,SMD-A,SN	
JNJ03	3722-001741	JACK-MINI USB;5P,-,AU30U,BLK,-	
QI01	0501-000546	TR-SMALL SIGNAL;KSA1298,PNP,200mW,SOT-23	
QI02	0504-001037	TR-DIGITAL;KRC401,NPN,100MW,4.7K/4.7K,SO	
QI03	0504-000168	TR-DIGITAL;RN1104,NPN,100MW,47K/47K,SSM,	
RI50	2007-000781	R-CHIP;33OHM,5%,1/10W,DA,TP,2012	
RI51	2007-000094	R-CHIP;22Kohm,5%,1/16W,DA,TP,1608	
RI52	2007-000087	R-CHIP;6.8Kohm,5%,1/16W,DA,TP,1608	
RJ01	2007-000458	R-CHIP;18Kohm,5%,1/16W,DA,TP,1608	
RJ02	2007-000134	R-CHIP;33Kohm,5%,1/16W,DA,TP,1608	
RJ03	2007-000130	R-CHIP;39Kohm,5%,1/16W,DA,TP,1608	
RJ04	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
RJ05	2007-000863	R-CHIP;4.3OHM,5%,1/10W,DA,TP,2012	
SWJ01	3404-001034	SWITCH-TACT;12V,50mA,160gf,4x7.4x1.8mm,S	
JNJ01	3722-001202	JACK-PHONE;7P,3.6PI,AG,YEL,NO	
JNJ02	3722-001435	JACK-PHONE;4P,3.6PI,AG,RED,-	
JNJ04	3722-000458	JACK-DIN;4P/2C,-,SN,BLK,-	
LED01	0601-001626	LED-IR;ROUND,5MM,140MW,4V,880NM,-	
LED02	0601-001626	LED-IR;ROUND,5MM,140MW,4V,880NM,-	
REM01	AD32-00007A	MODULE REMOCON;-,KSM-603TM,37.9KHz,940nm	
		ASSY-LEFT BOARD	
CLF01	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CLF02	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CLF05	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CNLF01	3708-001813	CONNECTOR-FPC/FFC/PIC;45P,0.5MM,SMD-A,SN	
CNLF02	3708-001236	CONNECTOR-FPC/FFC/PIC;10P,0.5mm,SMD-A,SN	
CNLF03	3708-001112	CONNECTOR-FPC/FFC/PIC;26P,0.5mm,SMD-A,SN	
CNLF04	3708-001022	CONNECTOR-FPC/FFC/PIC;18P,0.5mm,ANGLE,SN	
CNLF05	3711-000541	CONNECTOR-HEADER;BOX,2P,1R,1.25MM,SMD-A,	
CNLF06	3711-000922	CONNECTOR-HEADER;BOX,4P,1R,1.25mm,SMD-A,	
RLF01	2007-000651	R-CHIP;27Kohm,1%,1/16W,DA,TP,1608	
RLF02	2007-000828	R-CHIP;39Kohm,1%,1/16W,DA,TP,1608	
RLF03	2007-001206	R-CHIP;82Kohm,1%,1/16W,DA,TP,1608	
RLF04	2007-000633	R-CHIP;270Kohm,1%,1/16W,DA,TP,1608	
RLF05	2007-000651	R-CHIP;27Kohm,1%,1/16W,DA,TP,1608	
RLF06	2007-000828	R-CHIP;39Kohm,1%,1/16W,DA,TP,1608	
RLF10	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RLF11	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF12	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF14	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF15	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF16	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF20	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF21	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF22	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF23	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF24	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF25	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF26	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF27	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF28	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF29	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF30	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF31	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF32	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF33	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF34	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF35	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF36	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF37	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF38	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF39	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RLF40	2007-000402	R-CHIP;150ohm,5%,1/16W,DA,TP,1608	
RLF41	2007-000309	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	
RLF42	2007-000606	R-CHIP;240ohm,1%,1/16W,DA,TP,1608	
RLF43	2007-000402	R-CHIP;150ohm,5%,1/16W,DA,TP,1608	
RLF44	2007-000309	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	
SOC01	3709-001214	CONNECTOR-CARD EDGE;10P,1.5MM,SMD-A,AUF	
SWLF01	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	

Loc. No	Part No	Desc & Spec	Remark
SWLF02	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	
SWLF03	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	
SWLF04	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	
SWLF05	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	
SWLF06	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	
SWLF07	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	
SWLF08	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	
SWLF10	3409-001036	SWITCH-DETECTOR;3~5V,50uA~10mA,2,30gf,LE	
		ASSY-LCD BOARD(2.5)	
CL101	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL102	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL104	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL107	2404-000212	C-TA,CHIP;3.3uF,20%,25V,-,TP,3528,-	
CL110	2404-000212	C-TA,CHIP;3.3uF,20%,25V,-,TP,3528,-	
CL111	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL137	2404-001131	C-TA,CHIP;22UF,10%,10V,GP,TP,3528	
CL138	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL148	2301-001108	C-FILM,CHIP;22nF,5%,50V,TP,3.2x2.5x1,4,3	
CL150	2203-005040	C-CERAMIC,CHIP;0.012nF,5%,3kV,NP0,TP,452	
CL157	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
CL158	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL160	2404-001131	C-TA,CHIP;22UF,10%,10V,GP,TP,3528	
CL161	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL208	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL209	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL210	2404-000232	C-TA,CHIP;4.7uF,20%,10V,-,TP,3216,-	
CL211	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL231	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL232	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
CL302	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
CL303	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
CL316	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
CL317	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL318	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
CL319	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL331	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528,-	
CL332	2404-000335	C-TA,CHIP;3.3uF,20%,16V,GP,TP,3216	
CL344	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CL401	2404-001269	C-TA,CHIP;10UF,20%,20V,-,TP,3528	
CL412	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
CL415	2203-000140	C-CERAMIC,CHIP;1.5nF,10%,50V,X7R,TP,1608	
CL416	2404-000167	C-TA,CHIP;2.2uF,20%,16V,-,TP,3216,-	
CL417	2404-000167	C-TA,CHIP;2.2uF,20%,16V,-,TP,3216,-	
CL418	2404-000167	C-TA,CHIP;2.2uF,20%,16V,-,TP,3216,-	
CL419	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
CL421	2404-000167	C-TA,CHIP;2.2uF,20%,16V,-,TP,3216,-	
CL422	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CNL301	3708-001829	CONNECTOR-FPC/FFC/PIC;28P,0.5mm,SMD-A,TI	
CNL302	3708-001749	CONNECTOR-FPC/FFC/PIC;26P,0.5MM,SMD-A,SN	
DL303	0401-001054	DIODE-SWITCHING;KDS160,85V,300mA,SOD-323	
ICL01	1003-001474	IC-LCD DRIVER;AN2545NFHQ,LQFP,48P,49MIL,	
ICL202	1103-001133	IC-EEPROM;24C020,256x8BIT,SOP,8P,150MIL,	
ICL301	1201-001086	IC-OP AMP;75S558,SOP,5P,62.9MIL,DUAL,100	
LED01	0601-001097	LED;CHIP,GRN,1.6x1.4mm,560nm	
LL102	2703-000407	INDUCTOR-SMD;330uH,10%,3.2x2.5x2.2mm	
LL104	2703-000396	INDUCTOR-SMD;10uH,10%,2.5x2x1.8mm	
LL105	2703-000396	INDUCTOR-SMD;10uH,10%,2.5x2x1.8mm	
LL109	2703-002271	INDUCTOR-SMD;100UH,-,5.5X5.5X2MM	
LL115	2703-000398	INDUCTOR-SMD;10uH,10%,3.2x2.5x2.2mm	
LL201	2703-000396	INDUCTOR-SMD;10uH,10%,2.5x2x1.8mm	
LL304	2703-000396	INDUCTOR-SMD;10uH,10%,2.5x2x1.8mm	
LL307	2703-000407	INDUCTOR-SMD;330uH,10%,3.2x2.5x2.2mm	
LL401	2703-000396	INDUCTOR-SMD;10uH,10%,2.5x2x1.8mm	
QL103	0504-001037	TR-DIGITAL;KRC401,NPN,100MW,4.7K/4.7K,SO	
QL108	0502-001221	TR-POWER;CPH3209,NPN,900MW,CPH3,TP,200-	
QL109	0502-001221	TR-POWER;CPH3209,NPN,900MW,CPH3,TP,200-	
QL110	0501-002311	TR-SMALL SIGNAL;HN2A01FU,PNP,200mW,UMD6,	
QL306	0501-000552	TR-SMALL SIGNAL;2SA1774-Q,PNP,150mW,EM3,	
RL136	2007-000516	R-CHIP;2.7Kohm,1%,1/16W,DA,TP,1608	
RL137	2007-000516	R-CHIP;2.7Kohm,1%,1/16W,DA,TP,1608	
RL140	2007-000124	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608	
RL141	2007-000116	R-CHIP;120ohm,5%,1/16W,DA,TP,1608	
RL142	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
RL201	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RL202	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
RL203	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
RL204	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
RL205	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RL301	2007-000458	R-CHIP;18Kohm,5%,1/16W,DA,TP,1608	
RL302	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
RL303	2007-000086	R-CHIP;5.6Kohm,5%,1/16W,DA,TP,1608	
RL304	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
RL305	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RL306	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
RL307	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
RL308	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
RL309	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
RL310	2007-001179	R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608	
RL311	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	

Loc. No	Part No	Desc & Spec	Remark
RL312	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RL313	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RL314	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RL315	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RL316	2007-000092	R-CHIP;15Kohm,5%,1/16W,DA,TP,1608	
RL317	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
RL319	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RL320	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
RL321	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RL322	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RL323	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RL428	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RL430	2007-000082	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1608	
RL431	2007-000082	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1608	
RL432	2007-000082	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1608	
TL103	2601-001090	TRANS-SMD,PULSE;100MH,760,-,10.1X10.1X2.	
		ASSY-EVF BOARD(PAL)	
CE01	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
CE02	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CE03	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CE04	2203-000440	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,-	
CE05	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528,-	
CE07	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
CE08	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CE10	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CE11	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CE12	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CE13	2203-000975	C-CERAMIC,CHIP;47nF,10%,25V,X7R,TP,1608,	
CE14	2404-000151	C-TA,CHIP;1uF,20%,16V,-,TP,3216,-	
CE15	2404-000151	C-TA,CHIP;1uF,20%,16V,-,TP,3216,-	
CE16	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
CE17	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CE18	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CE19	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CE20	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
CNE01	3708-001680	CONNECTOR-FPC/FFC/PIC;6P,0.5MM,SMD-A,SN	
CNE02	3708-001076	CONNECTOR-FPC/FFC/PIC;20P,0.5MM,SMD-S,SN	
DE02	0401-001054	DIODE-SWITCHING;KDS160,85V,300mA,SOD-323	
DE03	0404-000110	DIODE-SCHOTTKY;RB411D,20V,500mA,SOT-23,T	
DE04	0403-001421	DIODE-ZENER;KDZ2.7V,2.5-2.9V,150MW,SOD-3	
ICE01	1003-001373	IC-LCD DRIVER;MCVVQ111FB,LQFP,48P,276MIL	
LE01	2703-000397	INDUCTOR-SMD;33uH,10%,2.5x2x1.8mm	
LE03	2703-000397	INDUCTOR-SMD;33uH,10%,2.5x2x1.8mm	
LED01	0601-001586	LED;CHIP,WHT,-,470NM	

Loc. No	Part No	Desc & Spec	Remark
QE02	0501-002310	TR-SMALL SIGNAL;HN1B04FU,PNP/NPN,200mW,U	
RE01	2007-001125	R-CHIP;68Kohm,1%,1/16W,DA,TP,1608	
RE02	2007-001068	R-CHIP;6.8Kohm,1%,1/16W,DA,TP,1608	
RE05	2007-000772	R-CHIP;33Kohm,1%,1/16W,DA,TP,1608	
RE06	2007-000828	R-CHIP;39Kohm,1%,1/16W,DA,TP,1608	
RE07	2007-000078	R-CHIP;1Kohm,5%,1/16W,DA,TP,1608	
RE16	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RE17	2007-000082	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1608	
RE19	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RE21	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
RE22	2007-000075	R-CHIP;220ohm,5%,1/16W,DA,TP,1608	
RE24	2007-000084	R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608	
RE25	2007-000097	R-CHIP;47Kohm,5%,1/16W,DA,TP,1608	
RE26	2007-000125	R-CHIP;3.9Kohm,5%,1/16W,DA,TP,1608	
RE29	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
RE30	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
RE31	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VRE02	2104-001007	VR-SMD;10Kohm,25%,0.15W,TOP	
		ASSY-TOP BOARD	
CNT01	3711-000922	CONNECTOR-HEADER;BOX,4P,1R,1.25mm,SMD-A,	
RT01	2007-000077	R-CHIP;470ohm,5%,1/16W,DA,TP,1608	
RT02	2007-000309	R-CHIP;10ohm,5%,1/16W,DA,TP,1608	
SWT01	2102-001019	VR-SLIDE;10Kohm,30%,1/20W,SLIDE	
SWT02	3404-001130	SWITCH-TACT;12VDC,50mA,160gf,6.1x3.7x2.5	
		ASSY-REAR BOARD	
CNR01	3710-001106	CONNECTOR-SOCKET;40P,2R,0.8mm,SMD-S,SN	
CNR02	3710-001478	CONNECTOR-SOCKET;18P,2R,1MM,SMD-S,SN	
CNR03	3711-000862	CONNECTOR-HEADER;BOX,3P,1R,1.25mm,SMD-A,	
CR10	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CR20	2203-000257	C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608	
FER01	0505-001726	FET-SILICON;ECH8603,P,-20V,-4A,37MOHM,1.	
ICR01	AC14-12012T	IC-OP AMP;TA75S01F(TE85L),QFP,-	
LDR01	0601-001006	LED;CHIP,Y-GRN,1.3x2.9mm,570nm	
QR01	0504-001102	TR-DIGITAL;EMD3,NPN/PNP,150MW,10K/10K,EM	
QR02	0504-000168	TR-DIGITAL;RN1104,NPN,100MW,47K/47K,SSM,	
QR03	0504-000168	TR-DIGITAL;RN1104,NPN,100MW,47K/47K,SSM,	
QR04	0504-001032	TR-DIGITAL;KRC404,NPN,100MW,47K/47K,SOT-	
RR01	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RR02	2007-000109	R-CHIP;1Mohm,5%,1/16W,DA,TP,1608	
RR03	2007-008596	R-CHIP;0.1OHM,1%,1/2W,TP,3216	
RR04	2007-000043	R-CHIP;1Kohm,1%,1/16W,DA,TP,1608	
RR05	2007-000067	R-CHIP;15Kohm,1%,1/16W,DA,TP,1608	
RR06	2007-000043	R-CHIP;1Kohm,1%,1/16W,DA,TP,1608	
RR07	2007-000651	R-CHIP;27Kohm,1%,1/16W,DA,TP,1608	

Loc. No	Part No	Desc & Spec	Remark
RR08	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RR09	2007-000072	R-CHIP;47ohm,5%,1/16W,DA,TP,1608	
RR10	2007-000923	R-CHIP;470Kohm,1%,1/16W,DA,TP,1608	
RR11	2007-000563	R-CHIP;220Kohm,1%,1/16W,DA,TP,1608	
RR20	2007-000043	R-CHIP;1Kohm,1%,1/16W,DA,TP,1608	
RR21	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
RR30	2007-000077	R-CHIP;470ohm,5%,1/16W,DA,TP,1608	
RR31	2007-000077	R-CHIP;470ohm,5%,1/16W,DA,TP,1608	
RR32	2007-000076	R-CHIP;330ohm,5%,1/16W,DA,TP,1608	
RR33	2007-000076	R-CHIP;330ohm,5%,1/16W,DA,TP,1608	
RR34	2007-000076	R-CHIP;330ohm,5%,1/16W,DA,TP,1608	
RR35	2007-000076	R-CHIP;330ohm,5%,1/16W,DA,TP,1608	
RR36	2007-000077	R-CHIP;470ohm,5%,1/16W,DA,TP,1608	
SWR01	3409-001036	SWITCH-DETECTOR;3~5V,50uA~10mA,2,30gf,LE	
SWR03	3409-001035	SWITCH-DETECTOR;3~5V,50uA~10mA,2,30gf,LE	
SWR05	3404-001034	SWITCH-TACT;12V,50mA,160gf,4x7.4x1.8mm,S	
SWR06	3404-001034	SWITCH-TACT;12V,50mA,160gf,4x7.4x1.8mm,S	
SWR08	3404-001130	SWITCH-TACT;12VDC,50mA,160gf,6.1x3.7x2.5	
VRR01	3406-001005	SWITCH-ROTARY;5V,0.1mA,DPST,-	
BTR01	AD65-00019A	TERMINAL-PLATE BATTERY B;-,C5210R-H, T0.	
BTR02	AD65-00019A	TERMINAL-PLATE BATTERY B;-,C5210R-H, T0.	
JR01	AD97-04964A	ASSY-DC JACK;3P,ALPHA-PJ,DDAE-0174	
LBTR01	AD63-00074A	TERMINAL—LI BATT(+);M1-PJ,C5210R-H,T0.2	
LBTR02	AD63-00075A	TERMINAL—LI BATT(-);M1-PJ,C5210R-H,T0.2	
SWR07	3403-001084	SWITCH-PUSH;DC5V,1 MA,-,ON-OFF,-	
		ASSY-MAIN BOARD	
B301	2901-001022	FILTER-EMI SMD;10V,200mA,-,-,1.6x0.8x0.8	
B302	2901-001022	FILTER-EMI SMD;10V,200mA,-,-,1.6x0.8x0.8	
B303	2901-001022	FILTER-EMI SMD;10V,200mA,-,-,1.6x0.8x0.8	
B401	2901-001022	FILTER-EMI SMD;10V,200mA,-,-,1.6x0.8x0.8	
B402	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
B403	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
B404	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
BA01	2901-001022	FILTER-EMI SMD;10V,200mA,-,-,1.6x0.8x0.8	
BA02	2901-001022	FILTER-EMI SMD;10V,200mA,-,-,1.6x0.8x0.8	
BA03	2901-001022	FILTER-EMI SMD;10V,200mA,-,-,1.6x0.8x0.8	
BA04	2901-001022	FILTER-EMI SMD;10V,200mA,-,-,1.6x0.8x0.8	
C111	2203-005344	C-CERAMIC,CHIP;22nF,10%,25V,X7R,TP,1005,	
C112	2203-005344	C-CERAMIC,CHIP;22nF,10%,25V,X7R,TP,1005,	
C113	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C114	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C115	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C116	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C117	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C118	2203-002487	C-CERAMIC,CHIP;4.7nF,10%,25V,X7R,TP,1005	

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C119	2203-002487	C-CERAMIC,CHIP;4.7nF,10%,25V,X7R,TP,1005	
C120	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
C121	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C122	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
C123	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C124	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C201	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C203	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C206	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C208	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C209	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C210	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C211	2203-005627	C-CERAMIC,CHIP;470NF,10%,10V,X5R,TP,1608	
C212	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C213	2203-006006	C-CERAMIC,CHIP;0.005NF,°æ0.25PF,50V,C0G,	
C214	2203-006006	C-CERAMIC,CHIP;0.005NF,°æ0.25PF,50V,C0G,	
C215	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C216	2203-000812	C-CERAMIC,CHIP;0.033NF,5%,50V,C0G,TP,100	
C217	2203-000278	C-CERAMIC,CHIP;0.01NF,0.5PF,50V,C0G,TP,1	
C218	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C219	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C220	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C221	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C222	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C223	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C224	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C225	2203-000438	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1005,-	
C227	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C228	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C229	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C230	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C231	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C232	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C233	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C234	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C235	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C310	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
C311	2404-001254	C-TA,CHIP;220UF,20%,2.5V,-,TP,3.5(L)X2.8	
C312	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C313	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
C314	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C315	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
C316	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
C317	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
C318	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	

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C319	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
C320	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
C321	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C322	2404-001254	C-TA,CHIP;220UF,20%,2.5V,-,TP,3.5(L)X2.8	
C323	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
C324	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C325	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C327	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C328	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C401	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C402	2404-001039	C-TA,CHIP;47uF,20%,6.3V,GP,TP,3528,-	
C404	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C406	2203-005481	C-CERAMIC,CHIP;47nF,10%,10V,X7R,TP,1005,	
C407	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C408	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C409	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C410	2203-005481	C-CERAMIC,CHIP;47nF,10%,10V,X7R,TP,1005,	
C411	2203-005481	C-CERAMIC,CHIP;47nF,10%,10V,X7R,TP,1005,	
C412	2203-005481	C-CERAMIC,CHIP;47nF,10%,10V,X7R,TP,1005,	
C413	2203-005481	C-CERAMIC,CHIP;47nF,10%,10V,X7R,TP,1005,	
C414	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C501	2203-000438	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1005,-	
C502	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C503	2203-000438	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1005,-	
C504	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C505	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C506	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C507	2203-000585	C-CERAMIC,CHIP;220pF,10%,50V,X7R,TP,1005	
C508	2404-000151	C-TA,CHIP;1uF,20%,16V,-,TP,3216,-	
C509	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C510	2203-000438	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1005,-	
C511	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C512	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C513	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C514	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C517	2203-000438	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1005,-	
C601	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C602	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C603	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C605	2203-000438	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1005,-	
C606	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C607	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C608	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C609	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C610	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	

Loc. No	Part No	Desc & Spec	Remark
C611	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528,-	
C612	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528,-	
C613	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C616	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C617	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C618	2203-002487	C-CERAMIC,CHIP;4.7nF,10%,25V,X7R,TP,1005	
C619	2203-005481	C-CERAMIC,CHIP;47nF,10%,10V,X7R,TP,1005,	
C620	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C621	2203-005923	C-CERAMIC,CHIP;1000NF,20%,6.3V,X5R,TP,16	
C622	2203-000234	C-CERAMIC,CHIP;0.1NF,5%,50V,C0G,TP,1005	
C623	2203-000234	C-CERAMIC,CHIP;0.1NF,5%,50V,C0G,TP,1005	
C624	2203-000234	C-CERAMIC,CHIP;0.1NF,5%,50V,C0G,TP,1005	
C625	2203-006047	C-CERAMIC,CHIP;33NF,10%,16V,X7R,TP,1005	
C626	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C627	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C628	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C629	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C630	2203-000489	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,1005	
C631	2203-000489	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,1005	
C701	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C702	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C703	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C704	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C705	2203-000714	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,1005	
C706	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
C707	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
C708	2203-002982	C-CERAMIC,CHIP;6.8nF,10%,50V,X7R,TP,1005	
C709	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
C710	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
C711	2203-002982	C-CERAMIC,CHIP;6.8nF,10%,50V,X7R,TP,1005	
C712	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C713	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
C714	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
C715	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C716	2203-006006	C-CERAMIC,CHIP;0.005NF,°æ0.25PF,50V,C0G,	
C717	2203-000278	C-CERAMIC,CHIP;0.01NF,0.5PF,50V,C0G,TP,1	
C718	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C719	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
C720	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
C721	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C722	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C723	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C724	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
C801	2404-000275	C-TA,CHIP;100UF,10%,10V,GP,TP,7343	
C802	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	

Loc. No	Part No	Desc & Spec	Remark
C803	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C804	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C805	2203-000234	C-CERAMIC,CHIP;0.1NF,5%,50V,C0G,TP,1005	
C806	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C807	2203-005496	C-CERAMIC,CHIP;220nF,+80-20%,10V,Y5V,TP,	
C808	2404-000151	C-TA,CHIP;1uF,20%,16V,-,TP,3216,-	
C809	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C810	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C812	2203-000234	C-CERAMIC,CHIP;0.1NF,5%,50V,C0G,TP,1005	
C813	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C814	2203-005065	C-CERAMIC,CHIP;1000nF,+80-20%,10V,Y5V,TP	
C815	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C816	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C817	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C818	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C819	2404-000167	C-TA,CHIP;2.2uF,20%,16V,-,TP,3216,-	
C820	2404-000167	C-TA,CHIP;2.2uF,20%,16V,-,TP,3216,-	
C821	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C822	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C823	2404-000232	C-TA,CHIP;4.7uF,20%,10V,-,TP,3216,-	
C824	2404-000157	C-TA,CHIP;1uF,20%,35V,-,TP,3216,-	
C825	2404-000157	C-TA,CHIP;1uF,20%,35V,-,TP,3216,-	
C826	2404-000157	C-TA,CHIP;1uF,20%,35V,-,TP,3216,-	
C827	2404-000157	C-TA,CHIP;1uF,20%,35V,-,TP,3216,-	
C828	2203-002487	C-CERAMIC,CHIP;4.7nF,10%,25V,X7R,TP,1005	
C829	2203-002487	C-CERAMIC,CHIP;4.7nF,10%,25V,X7R,TP,1005	
C831	2203-005496	C-CERAMIC,CHIP;220nF,+80-20%,10V,Y5V,TP,	
C832	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C833	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C834	2203-000438	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1005,-	
C835	2203-000438	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1005,-	
C836	2203-005496	C-CERAMIC,CHIP;220nF,+80-20%,10V,Y5V,TP,	
C837	2203-005496	C-CERAMIC,CHIP;220nF,+80-20%,10V,Y5V,TP,	
C838	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C901	2203-000234	C-CERAMIC,CHIP;0.1NF,5%,50V,C0G,TP,1005	
C902	2203-000438	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1005,-	
C903	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C904	2203-000438	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1005,-	
C905	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
C906	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C907	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C908	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
C909	2203-000234	C-CERAMIC,CHIP;0.1NF,5%,50V,C0G,TP,1005	
C910	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C911	2203-000438	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1005,-	

Loc. No	Part No	Desc & Spec	Remark
C912	2203-000438	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1005,-	
C913	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
C914	2203-000438	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1005,-	
C915	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
C919	2203-006078	C-CERAMIC,CHIP;10000NF,20%,16V,X5R,TP,32	
C920	2404-000335	C-TA,CHIP;3.3uF,20%,16V,GP,TP,3216	
C921	2203-005686	C-CERAMIC,CHIP;2200nF,20%,10V,X5R,TP,201	
C923	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C924	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C925	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C926	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C927	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C928	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C929	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C930	2203-005922	C-CERAMIC,CHIP;4700NF,20%,6.3V,X5R,TP,20	
C931	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C933	2203-005686	C-CERAMIC,CHIP;2200nF,20%,10V,X5R,TP,201	
C934	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C936	2203-005686	C-CERAMIC,CHIP;2200nF,20%,10V,X5R,TP,201	
C937	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C938	2203-005686	C-CERAMIC,CHIP;2200nF,20%,10V,X5R,TP,201	
C940	2203-005921	C-CERAMIC,CHIP;10000NF,20%,4V,X5R,TP,201	
C941	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
C942	2203-005686	C-CERAMIC,CHIP;2200nF,20%,10V,X5R,TP,201	
C946	2203-005921	C-CERAMIC,CHIP;10000NF,20%,4V,X5R,TP,201	
C947	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
C949	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C950	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C951	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C952	2203-005686	C-CERAMIC,CHIP;2200nF,20%,10V,X5R,TP,201	
C954	2203-005922	C-CERAMIC,CHIP;4700NF,20%,6.3V,X5R,TP,20	
C955	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
C956	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C957	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C958	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C959	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C961	2203-005922	C-CERAMIC,CHIP;4700NF,20%,6.3V,X5R,TP,20	
C962	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
C964	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C965	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C966	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C969	2203-005686	C-CERAMIC,CHIP;2200nF,20%,10V,X5R,TP,201	
C971	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C976	2203-005686	C-CERAMIC,CHIP;2200nF,20%,10V,X5R,TP,201	
C977	2203-005686	C-CERAMIC,CHIP;2200nF,20%,10V,X5R,TP,201	

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C986	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C988	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C989	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C990	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C992	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C994	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C995	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C996	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C997	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
CA01	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA02	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA03	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA04	2404-001250	C-TA,CHIP;47UF,20%,4V,-,TP,3216	
CA05	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA06	2404-001250	C-TA,CHIP;47UF,20%,4V,-,TP,3216	
CA07	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA08	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
CA09	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA12	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA13	2203-000812	C-CERAMIC,CHIP;0.033NF,5%,50V,C0G,TP,100	
CA14	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA15	2203-000254	C-CERAMIC,CHIP;10nF,10%,16V,X7R,TP,1005,	
CA16	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA17	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA18	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA19	2203-002443	C-CERAMIC,CHIP;0.33nF,10%,50V,X7R,TP,100	
CA20	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA21	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA22	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
CA23	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA24	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA30	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA31	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA32	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
CA33	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA34	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CA35	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CN101	3708-001235	CONNECTOR-FPC/FFC/PIC;10P,0.5mm,SMD-A,SN	
CN301	3708-001813	CONNECTOR-FPC/FFC/PIC;45P,0.5MM,SMD-A,SN	
CN401	3708-001340	CONNECTOR-FPC/FFC/PIC;24P,0.5mm,SMD-A,SN	
CN601	3708-001022	CONNECTOR-FPC/FFC/PIC;18P,0.5mm,ANGLE,SN	
CN602	3708-001598	CONNECTOR-FPC/FFC/PIC;19P,0.5MM,SMD-A-T,	
CN603	3708-001235	CONNECTOR-FPC/FFC/PIC;10P,0.5mm,SMD-A,SN	
CN604	3708-001134	CONNECTOR-FPC/FFC/PIC;11P,0.5mm,SMD-A,SN	
CN701	3710-001215	CONNECTOR-SOCKET;10P,2R,0.8mm,SMD-S,SN	

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CN801	3711-000456	CONNECTOR-HEADER;BOX,4P,1R,1.25MM,SMD-S,	
CN901	3710-000554	CONNECTOR-SOCKET;40P,2R,0.8mm,SMD-A,SN	
CN902	3711-000541	CONNECTOR-HEADER;BOX,2P,1R,1.25MM,SMD-A,	
CNA01	3708-001662	CONNECTOR-FPC/FFC/PIC;10P,0.5MM,SMD-A-ZI	
CNP01	3710-000554	CONNECTOR-SOCKET;40P,2R,0.8mm,SMD-A,SN	
CP01	2404-000157	C-TA,CHIP;1uF,20%,35V,-,TP,3216,-	
CP02	2404-000212	C-TA,CHIP;3.3uF,20%,25V,-,TP,3528,-	
CP03	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP04	2404-000212	C-TA,CHIP;3.3uF,20%,25V,-,TP,3528,-	
CP05	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP06	2203-005065	C-CERAMIC,CHIP;1000nF,+80-20%,10V,Y5V,TP	
CP07	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP08	2203-005065	C-CERAMIC,CHIP;1000nF,+80-20%,10V,Y5V,TP	
CP09	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP10	2203-005065	C-CERAMIC,CHIP;1000nF,+80-20%,10V,Y5V,TP	
CP11	2203-005065	C-CERAMIC,CHIP;1000nF,+80-20%,10V,Y5V,TP	
CP12	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
CP13	2203-000815	C-CERAMIC,CHIP;0.033NF,5%,50V,C0G,TP,160	
CP14	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
CP15	2404-001131	C-TA,CHIP;22UF,10%,10V,GP,TP,3528	
CP16	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP17	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP18	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP19	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP21	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP22	2203-005065	C-CERAMIC,CHIP;1000nF,+80-20%,10V,Y5V,TP	
CP23	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
CP24	2203-001405	C-CERAMIC,CHIP;22nF,+80-20%,25V,Y5V,TP,1	
CP25	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP26	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP27	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP28	2203-006047	C-CERAMIC,CHIP;33NF,10%,16V,X7R,TP,1005	
CP30	2203-006047	C-CERAMIC,CHIP;33NF,10%,16V,X7R,TP,1005	
CP33	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP34	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216,3.2	
CP35	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP36	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
CP37	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP38	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP39	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP40	2203-000359	C-CERAMIC,CHIP;0.15NF,5%,50V,C0G,TP,1005	
CP41	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP42	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
CP43	2203-006048	C-CERAMIC,CHIP;100NF,10%,10V,X7R,TP,1005	
D701	0401-001054	DIODE-SWITCHING;KDS160,85V,300mA,SOD-323	

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D702	0401-001054	DIODE-SWITCHING;KDS160,85V,300mA,SOD-323	
D902	0401-001059	DIODE-SWITCHING;1SS362,80V,80mA,SC-75,TP	
D905	0401-001059	DIODE-SWITCHING;1SS362,80V,80mA,SC-75,TP	
D906	0401-001059	DIODE-SWITCHING;1SS362,80V,80mA,SC-75,TP	
DP01	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
DP02	0401-001054	DIODE-SWITCHING;KDS160,85V,300mA,SOD-323	
F901	3601-001331	FUSE-SURFACE MOUNT;32V,1.25A,SLOW BLOW,,	
F902	3601-001331	FUSE-SURFACE MOUNT;32V,1.25A,SLOW BLOW,,	
F903	3601-001331	FUSE-SURFACE MOUNT;32V,1.25A,SLOW BLOW,,	
IC101	AD13-00019A	IC ASIC-LDV5000,PRML;LDV5000,DELTA-PJ,64	
IC102	1201-001511	IC-PREAMP;370250,VSOP,14P,-,DUAL,500V/V,	
IC201	AD13-00021A	IC ASIC;-,DV 1 CHIP(REV0.1),320,+1.8V,	
IC202	1105-001035	IC-DRAM;416S1120,1Mx16Bit,TSOP,50P,400	
IC301	1201-001322	IC-VIDEO AMP;NJM2538V,SOP,20P,175MIL,-,-	
IC303	1204-001946	IC-OSD PROCESSOR;UPD6467GR,SSOP,20P,173M	
IC401	1204-001573	IC-VIDEO PROCESS;SAA7113H,QFP,44P,393MIL	
IC501	1205-001988	IC-DATA COMM./GEN.;TSB41AB1-PAP,QFP,64P,	
IC601	1003-001241	IC-MOTOR DRIVER;LB11990W,SQPF,64P,-,-,1A	
IC602	AD14-10001C	IC-AMP;NJM2904V,SSOP,OP-AMP	
IC603	AC14-12012T	IC-OP AMP;TA75S01F(TE85L),QFP,-	
IC701	AD09-00187A	IC MICOM;UPD70F3166Y,DELTA,257,3.2/2.5V	
IC702	0909-001013	IC-REAL TIME CLOCK;5C372,8BIT,SOP,8P,-,3	
IC703	1203-002807	IC-VOLTAGE REGULATOR;XC6413FY01MR,SOT-25	
IC705	1103-001218	IC-EEPROM;524AB0X91,4Kx8Bit,SOP,8P,156MI	
IC706	1203-002184	IC-VOLTAGE REGULATOR;71725,SOT-23-5,5P,6	
IC708	0801-002800	IC-CMOS LOGIC;NC7SV08,AND GATE,SC70,5P,4	
IC801	1205-002247	IC-CODEC;AK4564VQ,LQFP,48P,7X7MM,PLASTI	
IC802	AD09-00122A	IC-MOC-VOICE;ML2201,-,8PIN,2V~5.5V,4.096	
IC803	0801-002417	IC-CMOS LOGIC;7SHU04,INVERTER,SSOP,5P,49	
IC901	1203-002323	IC-PWM CONTROLLER;MB3881,LQFP,64P,-,PLAS	
ICA01	AD13-00018A	IC HYBRID-DSP5;S5C7375X,DELTA-PJ,232,0 T	
ICA02	1105-001424	IC-DRAM;K4S643232E,4X512KX32BIT,TSOP(I	
ICA03	1107-001365	IC-FLASH MEMORY;K8D1616UBA,1MX16BIT,TBGA	
ICA04	0801-002349	IC-CMOS LOGIC;7S66,BILATERAL SWITCH,SOP,	
ICP01	1003-001065	IC-CLOCK DRIVER;KS7221D,SOP,20P,225MIL,Q	
ICP02	1002-001270	IC-A/D CONVERTER;TLV990BPFB,10,TQFP,48P,	
ICP03	1003-001530	IC-MOTOR DRIVER;UPD16877MA-6A5,TSSOP,24P	
ICP05	1201-001667	IC-OP AMP;12902,SSOP,TP,14P,173MIL,QUAD,	
ICP06	0801-002417	IC-CMOS LOGIC;7SHU04,INVERTER,SSOP,5P,49	
ICP07	0801-002417	IC-CMOS LOGIC;7SHU04,INVERTER,SSOP,5P,49	
ICP08	AC14-12012T	IC-OP AMP;TA75S01F(TE85L),QFP,-	
J501	3722-001967	JACK-IEEE1394;4P,-,AU,,-	
L112	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
L113	2703-002174	INDUCTOR-SMD;10UH,10%,2.5X2.0X1.8MM	
L203	2703-002174	INDUCTOR-SMD;10UH,10%,2.5X2.0X1.8MM	

Loc. No	Part No	Desc & Spec	Remark
L204	2703-002174	INDUCTOR-SMD;10UH,10%,2.5X2.0X1.8MM	
L205	2703-002174	INDUCTOR-SMD;10UH,10%,2.5X2.0X1.8MM	
L206	2007-000643	R-CHIP;270ohm,5%,1/16W,DA,TP,1608	
L303	2703-000396	INDUCTOR-SMD;10uH,10%,2.5x2x1.8mm	
L304	2703-000396	INDUCTOR-SMD;10uH,10%,2.5x2x1.8mm	
L305	2703-000396	INDUCTOR-SMD;10uH,10%,2.5x2x1.8mm	
L401	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
L501	2703-002174	INDUCTOR-SMD;10UH,10%,2.5X2.0X1.8MM	
L502	2703-002174	INDUCTOR-SMD;10UH,10%,2.5X2.0X1.8MM	
L601	2703-000396	INDUCTOR-SMD;10uH,10%,2.5x2x1.8mm	
L701	2703-000396	INDUCTOR-SMD;10uH,10%,2.5x2x1.8mm	
L702	2703-000396	INDUCTOR-SMD;10uH,10%,2.5x2x1.8mm	
L801	2703-000396	INDUCTOR-SMD;10uH,10%,2.5x2x1.8mm	
L802	2703-002175	INDUCTOR-SMD;100UH,10%,2.5X2.0X1.8MM	
L803	2703-000396	INDUCTOR-SMD;10uH,10%,2.5x2x1.8mm	
L804	2703-000396	INDUCTOR-SMD;10uH,10%,2.5x2x1.8mm	
L805	2703-001867	INDUCTOR-SMD;1UH,20%,2.5X2X1.8MM	
L806	2703-000397	INDUCTOR-SMD;33uH,10%,2.5x2x1.8mm	
L807	2703-001867	INDUCTOR-SMD;1UH,20%,2.5X2X1.8MM	
L808	2703-001867	INDUCTOR-SMD;1UH,20%,2.5X2X1.8MM	
L902	2703-000408	INDUCTOR-SMD;3,3uH,20%,3.2x2.5x2.2mm	
L903	2703-002570	INDUCTOR-SMD;33UH,20%,4.0X4.0X1.9MM	
L904	2703-000375	INDUCTOR-SMD;82uH,5%,2.5x2x1.8mm	
L905	2703-000397	INDUCTOR-SMD;33uH,10%,2.5x2x1.8mm	
L906	2703-001865	INDUCTOR-SMD;33UH,20%,6X6X2.8MM	
L907	2703-001910	INDUCTOR-SMD;68uH,20%,6x6x2.8mm	
L908	2703-001910	INDUCTOR-SMD;68uH,20%,6x6x2.8mm	
L909	2703-000408	INDUCTOR-SMD;3.3uH,20%,3.2x2.5x2.2mm	
L910	2703-001865	INDUCTOR-SMD;33UH,20%,6X6X2.8MM	
L913	2703-001863	INDUCTOR-SMD;6.8UH,20%,2.5X2X1.8MM	
L914	2703-001863	INDUCTOR-SMD;6.8UH,20%,2.5X2X1.8MM	
L915	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
L917	2703-001865	INDUCTOR-SMD;33UH,20%,6X6X2.8MM	
L918	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
L919	2703-001867	INDUCTOR-SMD;1UH,20%,2.5X2X1.8MM	
L922	2703-001865	INDUCTOR-SMD;33UH,20%,6X6X2.8MM	
L924	2703-001863	INDUCTOR-SMD;6.8UH,20%,2.5X2X1.8MM	
L925	2703-001863	INDUCTOR-SMD;6.8UH,20%,2.5X2X1.8MM	
L926	2703-001863	INDUCTOR-SMD;6.8UH,20%,2.5X2X1.8MM	
L928	2703-000397	INDUCTOR-SMD;33uH,10%,2.5x2x1.8mm	
L929	2703-000397	INDUCTOR-SMD;33uH,10%,2.5x2x1.8mm	
L930	2703-001865	INDUCTOR-SMD;33UH,20%,6X6X2.8MM	
L934	2703-000397	INDUCTOR-SMD;33uH,10%,2.5x2x1.8mm	
L940	2703-000397	INDUCTOR-SMD;33uH,10%,2.5x2x1.8mm	
L941	2703-001863	INDUCTOR-SMD;6.8UH,20%,2.5X2X1.8MM	

Loc. No	Part No	Desc & Spec	Remark
L950	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
LA01	2703-001863	INDUCTOR-SMD;6.8UH,20%,2.5X2X1.8MM	
LA02	2703-001883	INDUCTOR-SMD;22uH,10%,2.5x2x1.8mm	
LA03	2703-001863	INDUCTOR-SMD;6.8UH,20%,2.5X2X1.8MM	
LA05	2703-001863	INDUCTOR-SMD;6.8UH,20%,2.5X2X1.8MM	
LA06	2703-001863	INDUCTOR-SMD;6.8UH,20%,2.5X2X1.8MM	
LP01	2703-001883	INDUCTOR-SMD;22uH,10%,2.5x2x1.8mm	
LP02	2703-001883	INDUCTOR-SMD;22uH,10%,2.5x2x1.8mm	
LP03	2703-002174	INDUCTOR-SMD;10UH,10%,2.5X2.0X1.8MM	
LP04	2703-002174	INDUCTOR-SMD;10UH,10%,2.5X2.0X1.8MM	
LP05	2703-002174	INDUCTOR-SMD;10UH,10%,2.5X2.0X1.8MM	
LP06	2703-002174	INDUCTOR-SMD;10UH,10%,2.5X2.0X1.8MM	
MD01	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
MD04	2007-000070	R-CHIP;0ohm,5%,1/16W,DA,TP,1608	
Q111	0501-002128	TR-SMALL SIGNAL;KTC4075,NPN,100mW,USM,TP	
Q112	0501-002128	TR-SMALL SIGNAL;KTC4075,NPN,100mW,USM,TP	
Q301	0504-001032	TR-DIGITAL;KRC404,NPN,100MW,47K/47K,SOT-	
Q302	0504-001032	TR-DIGITAL;KRC404,NPN,100MW,47K/47K,SOT-	
Q401	0501-002374	TR-SMALL SIGNAL;EMZ1,NPN/PNP,150MW,EMT6,	
Q402	0501-002374	TR-SMALL SIGNAL;EMZ1,NPN/PNP,150MW,EMT6,	
Q403	0501-002374	TR-SMALL SIGNAL;EMZ1,NPN/PNP,150MW,EMT6,	
Q404	0504-000168	TR-DIGITAL;RN1104,NPN,100MW,47K/47K,SSM,	
Q601	0504-000167	TR-DIGITAL;RN1102,NPN,100MW,10K/10K,SSM,	
Q604	0504-000167	TR-DIGITAL;RN1102,NPN,100MW,10K/10K,SSM,	
Q605	0501-000172	TR-SMALL SIGNAL;2SB1121,PNP,500mW,PCP,TP	
Q701	0501-000552	TR-SMALL SIGNAL;2SA1774-Q,PNP,150mW,EM3,	
Q901	0505-001646	FET-SILICON;MCH5803,N,30V,1.4A,370MOHM,0	
Q906	0505-001725	FET-SILICON;MCH5818,P,-12V,-1.5A,200MOHM	
Q907	0505-001725	FET-SILICON;MCH5818,P,-12V,-1.5A,200MOHM	
Q908	0505-001725	FET-SILICON;MCH5818,P,-12V,-1.5A,200MOHM	
Q909	0505-001725	FET-SILICON;MCH5818,P,-12V,-1.5A,200MOHM	
Q910	0505-001725	FET-SILICON;MCH5818,P,-12V,-1.5A,200MOHM	
Q912	0505-001725	FET-SILICON;MCH5818,P,-12V,-1.5A,200MOHM	
Q913	0506-001066	TR-ARRAY;UMF5,NPN/PNP,2,150MW,SC-88,TP,	
Q914	0506-001066	TR-ARRAY;UMF5,NPN/PNP,2,150MW,SC-88,TP,	
Q915	0505-001725	FET-SILICON;MCH5818,P,-12V,-1.5A,200MOHM	
Q917	0506-001066	TR-ARRAY;UMF5,NPN/PNP,2,150MW,SC-88,TP,	
Q918	0506-001066	TR-ARRAY;UMF5,NPN/PNP,2,150MW,SC-88,TP,	
Q920	0504-000168	TR-DIGITAL;RN1104,NPN,100MW,47K/47K,SSM,	
Q925	0504-001101	TR-DIGITAL;EMD2,NPN/PNP,150MW,22K/22K,EM	
Q930	0501-000552	TR-SMALL SIGNAL;2SA1774-Q,PNP,150mW,EM3,	
Q931	0501-000552	TR-SMALL SIGNAL;2SA1774-Q,PNP,150mW,EM3,	
Q932	0501-000225	TR-SMALL SIGNAL;2SC4617,NPN,200mW,EM3,TP	
Q933	0501-000225	TR-SMALL SIGNAL;2SC4617,NPN,200mW,EM3,TP	
Q940	0501-000552	TR-SMALL SIGNAL;2SA1774-Q,PNP,150mW,EM3,	

Loc. No	Part No	Desc & Spec	Remark
Q941	0501-000225	TR-SMALL SIGNAL;2SC4617,NPN,200mW,EM3,TP	
Q942	0501-000225	TR-SMALL SIGNAL;2SC4617,NPN,200mW,EM3,TP	
QP01	0501-000225	TR-SMALL SIGNAL;2SC4617,NPN,200mW,EM3,TP	
QP02	0501-000552	TR-SMALL SIGNAL;2SA1774-Q,PNP,150mW,EM3,	
QP03	0501-000225	TR-SMALL SIGNAL;2SC4617,NPN,200mW,EM3,TP	
QP05	0504-001025	TR-DIGITAL;DTC143EE,NPN,150MW,4.7K,EMT3,	
QP06	0501-000225	TR-SMALL SIGNAL;2SC4617,NPN,200mW,EM3,TP	
QP07	0501-000552	TR-SMALL SIGNAL;2SA1774-Q,PNP,150mW,EM3,	
R111	2007-007142	R-CHIP;10Kohm,1%,1/16W,DA,TP,1005	
R112	2007-007318	R-CHIP;1Kohm,1%,1/16W,DA,TP,1005	
R113	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R115	2007-000151	R-CHIP;15Kohm,5%,1/16W,DA,TP,1005	
R116	2007-007142	R-CHIP;10Kohm,1%,1/16W,DA,TP,1005	
R117	2007-007318	R-CHIP;1Kohm,1%,1/16W,DA,TP,1005	
R118	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R119	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R120	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R121	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R122	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R123	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R124	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R125	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R126	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R127	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R128	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R129	2007-001313	R-CHIP;330ohm,5%,1/16W,DA,TP,1005	
R130	2007-000242	R-CHIP;1.5Kohm,5%,1/16W,DA,TP,1005	
R131	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R132	2007-000155	R-CHIP;27Kohm,5%,1/16W,DA,TP,1005	
R133	2007-000159	R-CHIP;56Kohm,5%,1/16W,DA,TP,1005	
R134	2007-000139	R-CHIP;220ohm,5%,1/16W,DA,TP,1005	
R135	2007-007095	R-CHIP;390OHM,5%,1/16W,DA,TP,1005	
R136	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R137	2007-000242	R-CHIP;1.5Kohm,5%,1/16W,DA,TP,1005	
R138	2007-007095	R-CHIP;390OHM,5%,1/16W,DA,TP,1005	
R139	2007-007095	R-CHIP;390OHM,5%,1/16W,DA,TP,1005	
R201	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R202	2007-001306	R-CHIP;150ohm,5%,1/16W,DA,TP,1005	
R205	2007-001306	R-CHIP;150ohm,5%,1/16W,DA,TP,1005	
R206	2007-001306	R-CHIP;150ohm,5%,1/16W,DA,TP,1005	
R208	2007-001306	R-CHIP;150ohm,5%,1/16W,DA,TP,1005	
R211	2007-001306	R-CHIP;150ohm,5%,1/16W,DA,TP,1005	
R212	2007-000164	R-CHIP;150Kohm,5%,1/16W,DA,TP,1005	
R213	2007-000142	R-CHIP;2.7Kohm,5%,1/16W,DA,TP,1005	
R214	2007-001333	R-CHIP;18Kohm,5%,1/16W,DA,TP,1005	

Loc. No	Part No	Desc & Spec	Remark
R215	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R216	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R217	2007-000142	R-CHIP;2.7Kohm,5%,1/16W,DA,TP,1005	
R218	2007-000164	R-CHIP;150Kohm,5%,1/16W,DA,TP,1005	
R219	2007-000153	R-CHIP;22Kohm,5%,1/16W,DA,TP,1005	
R220	2007-000170	R-CHIP;1Mohm,5%,1/16W,DA,TP,1005	
R222	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R225	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R226	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R227	2007-000164	R-CHIP;150Kohm,5%,1/16W,DA,TP,1005	
R228	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R229	2007-000142	R-CHIP;2.7Kohm,5%,1/16W,DA,TP,1005	
R230	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R235	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R236	2007-000173	R-CHIP;22ohm,5%,1/16W,DA,TP,1005	
R238	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R239	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R240	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R241	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R242	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R244	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R245	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R262	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R263	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R264	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R265	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R269	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R278	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R281	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R282	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R291	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R292	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R293	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R294	2007-000170	R-CHIP;1Mohm,5%,1/16W,DA,TP,1005	
R301	2007-008015	R-CHIP;75ohm,1%,1/16W,DA,TP,1005	
R302	2007-008015	R-CHIP;75ohm,1%,1/16W,DA,TP,1005	
R308	2007-002970	R-CHIP;56OHM,5%,1/16W,DA,TP,1005	
R309	2007-001305	R-CHIP;120ohm,5%,1/16W,DA,TP,1005	
R310	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R311	2007-003029	R-CHIP;820KOHM,5%,1/16W,DA,TP,1005	
R312	2007-001305	R-CHIP;120ohm,5%,1/16W,DA,TP,1005	
R313	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R314	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R315	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R316	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	

Loc. No	Part No	Desc & Spec	Remark
R317	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R318	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R403	2007-003006	R-CHIP;16OHM,5%,1/16W,DA,TP,1005	
R404	2007-001306	R-CHIP;150ohm,5%,1/16W,DA,TP,1005	
R405	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R406	2007-003006	R-CHIP;16OHM,5%,1/16W,DA,TP,1005	
R407	2007-001306	R-CHIP;150ohm,5%,1/16W,DA,TP,1005	
R408	2007-003006	R-CHIP;16OHM,5%,1/16W,DA,TP,1005	
R409	2007-001306	R-CHIP;150ohm,5%,1/16W,DA,TP,1005	
R410	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R411	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R412	2007-000932	R-CHIP;470ohm,5%,1/16W,DA,TP,1005	
R413	2007-000932	R-CHIP;470ohm,5%,1/16W,DA,TP,1005	
R414	2007-000932	R-CHIP;470ohm,5%,1/16W,DA,TP,1005	
R415	2007-000160	R-CHIP;68Kohm,5%,1/16W,DA,TP,1005	
R416	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R417	2007-000138	R-CHIP;100ohm,5%,1/16W,DA,TP,1005	
R524	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R526	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R527	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R529	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R531	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R532	2007-008301	R-CHIP;56.2OHM,1%,1/16W,DA,TP,1005	
R533	2007-008301	R-CHIP;56.2OHM,1%,1/16W,DA,TP,1005	
R534	2007-008300	R-CHIP;5.11KOHM,1%,1/16W,DA,TP,1005	
R535	2007-008301	R-CHIP;56.2OHM,1%,1/16W,DA,TP,1005	
R536	2007-008301	R-CHIP;56.2OHM,1%,1/16W,DA,TP,1005	
R537	2007-008391	R-CHIP;6.34KOHM,1%,1/16W,DA,TP,1005	
R542	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R601	2007-000161	R-CHIP;82Kohm,5%,1/16W,DA,TP,1005	
R602	2007-001311	R-CHIP;270ohm,5%,1/16W,DA,TP,1005	
R603	2007-001217	R-CHIP;82ohm,5%,1/16W,DA,TP,1005	
R604	2007-001311	R-CHIP;270ohm,5%,1/16W,DA,TP,1005	
R605	2007-000161	R-CHIP;82Kohm,5%,1/16W,DA,TP,1005	
R606	2007-007573	R-CHIP;330Kohm,1%,1/16W,DA,TP,1005	
R607	2007-007573	R-CHIP;330Kohm,1%,1/16W,DA,TP,1005	
R609	2007-007134	R-CHIP;39Kohm,1%,1/16W,DA,TP,1005	
R610	2007-007107	R-CHIP;100Kohm,1%,1/16W,DA,TP,1005	
R611	2007-007142	R-CHIP;10Kohm,1%,1/16W,DA,TP,1005	
R612	2007-007313	R-CHIP;6.8Kohm,1%,1/16W,DA,TP,1005	
R613	2007-000160	R-CHIP;68Kohm,5%,1/16W,DA,TP,1005	
R614	2007-000152	R-CHIP;20Kohm,5%,1/16W,DA,TP,1005	
R615	2007-000152	R-CHIP;20Kohm,5%,1/16W,DA,TP,1005	
R616	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R617	2007-000160	R-CHIP;68Kohm,5%,1/16W,DA,TP,1005	

Loc. No	Part No	Desc & Spec	Remark
R618	2007-000152	R-CHIP;20Kohm,5%,1/16W,DA,TP,1005	
R619	2007-000152	R-CHIP;20Kohm,5%,1/16W,DA,TP,1005	
R620	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R622	2007-000159	R-CHIP;56Kohm,5%,1/16W,DA,TP,1005	
R623	2007-000775	R-CHIP;33Kohm,5%,1/16W,DA,TP,1005	
R624	2007-000157	R-CHIP;47Kohm,5%,1/16W,DA,TP,1005	
R625	2007-000155	R-CHIP;27Kohm,5%,1/16W,DA,TP,1005	
R626	2007-000483	R-CHIP;1OHM,5%,1/10W,DA,TP,2012	
R627	2007-000483	R-CHIP;1OHM,5%,1/10W,DA,TP,2012	
R628	2007-000483	R-CHIP;1OHM,5%,1/10W,DA,TP,2012	
R629	2007-000483	R-CHIP;1OHM,5%,1/10W,DA,TP,2012	
R630	2007-000483	R-CHIP;1OHM,5%,1/10W,DA,TP,2012	
R636	2007-000775	R-CHIP;33Kohm,5%,1/16W,DA,TP,1005	
R637	2007-000775	R-CHIP;33Kohm,5%,1/16W,DA,TP,1005	
R643	2007-000156	R-CHIP;30Kohm,5%,1/16W,DA,TP,1005	
R644	2007-000156	R-CHIP;30Kohm,5%,1/16W,DA,TP,1005	
R649	2007-000153	R-CHIP;22Kohm,5%,1/16W,DA,TP,1005	
R650	2007-001341	R-CHIP;680Kohm,5%,1/16W,DA,TP,1005	
R652	2007-000170	R-CHIP;1Mohm,5%,1/16W,DA,TP,1005	
R653	2007-000153	R-CHIP;22Kohm,5%,1/16W,DA,TP,1005	
R654	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R656	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R657	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R658	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R701	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R702	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R703	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R704	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R705	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R706	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R707	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R708	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R709	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R710	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R7101	2007-000157	R-CHIP;47Kohm,5%,1/16W,DA,TP,1005	
R7102	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R7103	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R7104	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R7105	2007-000157	R-CHIP;47Kohm,5%,1/16W,DA,TP,1005	
R7106	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R7108	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R7109	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R711	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R7110	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R7111	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	

Loc. No	Part No	Desc & Spec	Remark
R7112	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R7113	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1005	
R7114	2007-000157	R-CHIP;47Kohm,5%,1/16W,DA,TP,1005	
R7115	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1005	
R7116	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R7117	2007-000170	R-CHIP;1Mohm,5%,1/16W,DA,TP,1005	
R7118	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R7119	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R712	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R7120	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R7121	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R7122	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R7123	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R7124	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R7126	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R7127	2007-000170	R-CHIP;1Mohm,5%,1/16W,DA,TP,1005	
R7128	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R7129	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R713	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R7130	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R7131	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R7132	2007-000148	R-CHIP;10Kohm;5%,1/16W,DA,TP,1005	
R7133	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R7134	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R7135	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R7136	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R7137	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R714	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R715	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R716	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R717	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1005	
R718	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R719	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R720	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R721	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R722	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R723	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R724	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R725	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R726	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R727	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R728	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R729	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R730	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R731	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	

Loc. No	Part No	Desc & Spec	Remark
R732	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R733	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R734	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R735	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R736	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1005	
R737	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R738	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R739	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R740	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R741	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R742	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R743	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R744	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R745	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R746	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R747	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R748	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R749	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R750	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R751	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R752	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R753	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R754	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R755	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R757	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R758	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R759	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R760	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R761	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R762	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R763	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R765	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R766	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R767	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R768	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R769	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R770	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R771	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R772	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R773	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R774	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R775	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R776	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R777	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R778	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	

Loc. No	Part No	Desc & Spec	Remark
R779	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R780	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R781	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R782	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R783	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R784	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R786	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R787	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R788	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R790	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R791	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R792	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R793	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R794	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R795	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R796	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R797	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R798	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R799	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R801	2007-000172	R-CHIP;10ohm,5%,1/16W,DA,TP,1005	
R802	2007-000172	R-CHIP;10ohm,5%,1/16W,DA,TP,1005	
R803	2007-000172	R-CHIP;10ohm,5%,1/16W,DA,TP,1005	
R804	2007-000172	R-CHIP;10ohm,5%,1/16W,DA,TP,1005	
R805	2007-000172	R-CHIP;10ohm,5%,1/16W,DA,TP,1005	
R806	2007-000120	R-CHIP;680ohm,5%,1/16W,DA,TP,1608	
R807	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R808	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1005	
R809	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1005	
R810	2007-000120	R-CHIP;680ohm,5%,1/16W,DA,TP,1608	
R811	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R812	2007-000172	R-CHIP;10ohm,5%,1/16W,DA,TP,1005	
R813	2007-000153	R-CHIP;22Kohm,5%,1/16W,DA,TP,1005	
R814	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R815	2007-000153	R-CHIP;22Kohm,5%,1/16W,DA,TP,1005	
R816	2007-000153	R-CHIP;22Kohm,5%,1/16W,DA,TP,1005	
R817	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R824	2007-000153	R-CHIP;22Kohm,5%,1/16W,DA,TP,1005	
R825	2007-000146	R-CHIP;6.8Kohm,5%,1/16W,DA,TP,1005	
R826	2007-000146	R-CHIP;6.8Kohm,5%,1/16W,DA,TP,1005	
R827	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R828	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R829	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R830	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
R831	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R832	2007-001319	R-CHIP;1.2Kohm,5%,1/16W,DA,TP,1005	

Loc. No	Part No	Desc & Spec	Remark
R833	2007-000152	R-CHIP;20Kohm,5%,1/16W,DA,TP,1005	
R838	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R901	2007-007134	R-CHIP;39Kohm,1%,1/16W,DA,TP,1005	
R902	2007-007132	R-CHIP;15Kohm,1%,1/16W,DA,TP,1005	
R903	2007-007588	R-CHIP;1.8Kohm,1%,1/16W,DA,TP,1005	
R904	2007-007134	R-CHIP;39Kohm,1%,1/16W,DA,TP,1005	
R905	2007-000154	R-CHIP;24Kohm,5%,1/16W,DA,TP,1005	
R906	2007-000091	R-CHIP;12Kohm,5%,1/16W,DA,TP,1608	
R907	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R908	2007-007142	R-CHIP;10Kohm,1%,1/16W,DA,TP,1005	
R909	2007-008275	R-CHIP;30KOHM,1%,1/16W,DA,TP,1005	
R910	2007-007132	R-CHIP;15Kohm,1%,1/16W,DA,TP,1005	
R911	2007-000775	R-CHIP;33Kohm,5%,1/16W,DA,TP,1005	
R912	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R913	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R914	2007-007309	R-CHIP;12Kohm,1%,1/16W,DA,TP,1005	
R915	2007-007142	R-CHIP;10Kohm,1%,1/16W,DA,TP,1005	
R916	2007-000151	R-CHIP;15Kohm,5%,1/16W,DA,TP,1005	
R917	2007-001333	R-CHIP;18Kohm,5%,1/16W,DA,TP,1005	
R918	2007-001333	R-CHIP;18Kohm,5%,1/16W,DA,TP,1005	
R919	2007-000152	R-CHIP;20Kohm,5%,1/16W,DA,TP,1005	
R920	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R921	2007-007310	R-CHIP;8.2Kohm,1%,1/16W,DA,TP,1005	
R922	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R923	2007-007470	R-CHIP;7.5Kohm,1%,1/16W,DA,TP,1005	
R924	2007-007311	R-CHIP;22Kohm,1%,1/16W,DA,TP,1005	
R925	2007-007312	R-CHIP;20Kohm,1%,1/16W,DA,TP,1005	
R926	2007-008275	R-CHIP;30KOHM,1%,1/16W,DA,TP,1005	
R928	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R929	2007-007470	R-CHIP;7.5Kohm,1%,1/16W,DA,TP,1005	
R930	2007-000154	R-CHIP;24Kohm,5%,1/16W,DA,TP,1005	
R932	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
R933	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
R934	2007-007311	R-CHIP;22Kohm,1%,1/16W,DA,TP,1005	
R935	2007-007310	R-CHIP;8.2Kohm,1%,1/16W,DA,TP,1005	
R946	2007-000153	R-CHIP;22Kohm,5%,1/16W,DA,TP,1005	
R947	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1005	
R948	2007-000153	R-CHIP;22Kohm,5%,1/16W,DA,TP,1005	
R949	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1005	
R951	2007-000153	R-CHIP;22Kohm,5%,1/16W,DA,TP,1005	
R952	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1005	
R953	2007-000153	R-CHIP;22Kohm,5%,1/16W,DA,TP,1005	
R954	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,DA,TP,1005	
R961	2007-007138	R-CHIP;27KOHM,1%,1/16W,DA,TP,1005	
R970	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	

Loc. No	Part No	Desc & Spec	Remark
R971	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R972	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R973	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R976	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1005	
R979	2007-000242	R-CHIP;1.5Kohm,5%,1/16W,DA,TP,1005	
R982	2007-000151	R-CHIP;15Kohm,5%,1/16W,DA,TP,1005	
R983	2007-000152	R-CHIP;20Kohm,5%,1/16W,DA,TP,1005	
R984	2007-000153	R-CHIP;22Kohm,5%,1/16W,DA,TP,1005	
R985	2007-008417	R-CHIP;34KOHM,1%,1/16W,DA,TP,1005	
R986	2007-007309	R-CHIP;12Kohm,1%,1/16W,DA,TP,1005	
R987	2007-000146	R-CHIP;6.8Kohm,5%,1/16W,DA,TP,1005	
R990	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R992	2007-000153	R-CHIP;22Kohm,5%,1/16W,DA,TP,1005	
R994	2007-000146	R-CHIP;6.8Kohm,5%,1/16W,DA,TP,1005	
R995	2007-007138	R-CHIP;27KOHM,1%,1/16W,DA,TP,1005	
R996	2007-007312	R-CHIP;20Kohm,1%,1/16W,DA,TP,1005	
R997	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R998	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
R999	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
RA01	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
RA02	2007-003112	R-CHIP;27OHM,5%,1/16W,DA,TP,1005	
RA03	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
RA06	2007-000172	R-CHIP;10ohm,5%,1/16W,DA,TP,1005	
RA07	2007-000172	R-CHIP;10ohm,5%,1/16W,DA,TP,1005	
RA11	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
RA12	2007-000172	R-CHIP;10ohm,5%,1/16W,DA,TP,1005	
RA16	2007-000172	R-CHIP;10ohm,5%,1/16W,DA,TP,1005	
RA17	2007-000170	R-CHIP;1Mohm,5%,1/16W,DA,TP,1005	
RA18	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
RA20	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
RA26	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
RA30	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
RA31	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
RA40	2007-000138	R-CHIP;100ohm,5%,1/16W,DA,TP,1005	
RA41	2007-000138	R-CHIP;100ohm,5%,1/16W,DA,TP,1005	
RA43	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
RA50	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
RA51	2007-000157	R-CHIP;47Kohm,5%,1/16W,DA,TP,1005	
RA52	2007-000157	R-CHIP;47Kohm,5%,1/16W,DA,TP,1005	
RA53	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
RA56	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
RA58	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
RA64	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
RA65	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
RA66	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	

Loc. No	Part No	Desc & Spec	Remark
RA67	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
RA71	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
RA72	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
RA73	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
RA75	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
RA76	2007-003112	R-CHIP;27OHM,5%,1/16W,DA,TP,1005	
RA77	2007-000138	R-CHIP;100ohm,5%,1/16W,DA,TP,1005	
RA78	2007-000138	R-CHIP;100ohm,5%,1/16W,DA,TP,1005	
RA79	2007-003112	R-CHIP;27OHM,5%,1/16W,DA,TP,1005	
RA80	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
RA82	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
RA83	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
RA84	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
RA85	2007-000242	R-CHIP;1.5Kohm,5%,1/16W,DA,TP,1005	
RA87	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
RA88	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
RA91	2007-000138	R-CHIP;100ohm,5%,1/16W,DA,TP,1005	
RA93	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
RP01	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
RP02	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1005	
RP05	2007-000153	R-CHIP;22Kohm,5%,1/16W,DA,TP,1005	
RP06	2007-000636	R-CHIP;270Kohm,5%,1/16W,DA,TP,1005	
RP08	2007-000153	R-CHIP;22Kohm,5%,1/16W,DA,TP,1005	
RP09	2007-000156	R-CHIP;30Kohm,5%,1/16W,DA,TP,1005	
RP10	2007-000162	R-CHIP;100Kohm,5%,1/16W,DA,TP,1005	
RP11	2007-000164	R-CHIP;150Kohm,5%,1/16W,DA,TP,1005	
RP12	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
RP13	2007-000139	R-CHIP;220ohm,5%,1/16W,DA,TP,1005	
RP15	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
RP16	2007-000171	R-CHIP;0ohm,5%,1/16W,DA,TP,1005	
RP17	2007-000164	R-CHIP;150Kohm,5%,1/16W,DA,TP,1005	
RP18	2007-007001	R-CHIP;3.9KOHM,5%,1/16W,DA,TP,1005	
RP19	2007-007001	R-CHIP;3.9KOHM,5%,1/16W,DA,TP,1005	
RP20	2007-000775	R-CHIP;33Kohm,5%,1/16W,DA,TP,1005	
RP21	2007-000153	R-CHIP;22Kohm,5%,1/16W,DA,TP,1005	
RP23	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
RP25	2007-000140	R-CHIP;1Kohm,5%,1/16W,DA,TP,1005	
RP28	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
RP29	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
RP30	2007-001307	R-CHIP;180ohm,5%,1/16W,DA,TP,1005	
RP31	2007-001307	R-CHIP;180ohm,5%,1/16W,DA,TP,1005	
RP32	2007-000159	R-CHIP;56Kohm,5%,1/16W,DA,TP,1005	
RP33	2007-000159	R-CHIP;56Kohm,5%,1/16W,DA,TP,1005	
RP34	2007-000775	R-CHIP;33Kohm,5%,1/16W,DA,TP,1005	
RP36	2007-000164	R-CHIP;150Kohm,5%,1/16W,DA,TP,1005	

Loc. No	Part No	Desc & Spec	Remark
RP37	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
RP38	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
RP40	2007-000172	R-CHIP;10ohm,5%,1/16W,DA,TP,1005	
RP41	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
RP42	2007-000148	R-CHIP;10Kohm,5%,1/16W,DA,TP,1005	
X201	2801-003703	CRYSTAL-SMD;24.576MHz,50ppm,28-ACI,12pF,	
X202	2801-003424	CRYSTAL-SMD;41.85MHZ,50ppm,28-ACC,12pF,-	
X701	2801-004237	CRYSTAL-SMD;12.5MHZ,50PPM,28-ABV,13PF,60	
X702	2801-000258	CRYSTAL-UNIT;32.768KHz,20ppm,28-AAW,12.5	
XA01	2804-001309	OSCILLATOR-CLOCK;54MHZ,20PPM,10TTL & CMO	
		ASSY-CCD BOARD	
CC01	2404-000212	C-TA,CHIP;3.3uF,20%,25V,-,TP,3528,-	
CC02	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CC03	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CC04	2203-000491	C-CERAMIC,CHIP;2.2nF,10%,50V,X7R,TP,1608	
CC05	2203-000189	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,	
CC06	2404-000212	C-TA,CHIP;3.3uF,20%,25V,-,TP,3528,-	
CNC01	3710-001106	CONNECTOR-SOCKET;40P,2R,0.8mm,SMD-S,SN	
CNC02	3708-001687	CONNECTOR-FPC/FFC/PIC;27,0.3MM,SMD-A,SN	
DC01	0401-001054	DIODE-SWITCHING;KDS160,85V,300mA,SOD-323	
QC01	0505-000180	FET-SILICON;2SK1070,N,-,50mA,-,150mW,SOT	
RC01	2007-000072	R-CHIP;47ohm,5%,1/16W,DA,TP,1608	
RC02	2007-000079	R-CHIP;1.8Kohm,5%,1/16W,DA,TP,1608	
RC03	2007-000102	R-CHIP;100Kohm,5%,1/16W,DA,TP,1608	
		ADAPTOR-AC POWER;100/240V,50HZ/60HZ,-,-,	
C10	2203-000455	C-CERAMIC,CHIP;1NF,5%,50V,C0G,TP,2012	
C11	2301-001092	C-FILM,MPEF;100nF,20%,275V,BK,18x6x12,15	
C12	2401-003302	C-AL;47uF,20%,400V,GP,TP,18X31.5,7.	
C13	2401-003046	C-AL;47uF,20%,50V,WT,TP,6.3x11,2.5	
C14	2203-000716	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012	
C15	2203-000716	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012	
C16	2203-000716	C-CERAMIC,CHIP;3.3nF,10%,50V,X7R,TP,2012	
C30	2201-000828	C-CERAMIC,DISC;3.3NF,20%,400V,Y5U,TP,15X	
C50	2401-000133	C-AL;1000uF,20%,16V,GP,TP,10x20,5	
C51	2401-000037	C-AL;470uF,20%,16V,GP,TP,8x11.5,5	
C55	2203-000239	C-CERAMIC,CHIP;0.1NF,5%,50V,C0G,TP,2012	
C57	2203-002793	C-CERAMIC,CHIP;1000nF,+80-20%,25V,Y5V,TP	
C58	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
C59	2203-000938	C-CERAMIC,CHIP;0.47NF,5%,50V,C0G,TP,2012	
C61	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
C62	2401-000438	C-AL;10uF,20%,25V,GP,-,5x11,2mm	
C63	2203-000455	C-CERAMIC,CHIP;1NF,5%,50V,C0G,TP,2012	
CON1	3721-001034	PLUG-AC POWER;2P,-,-,NI	
CON2	3711-000900	CONNECTOR-HEADER;BOX,3P,1R,2.5mm,STRAIGH	

Loc. No	Part No	Desc & Spec	Remark
D10	0402-000137	DIODE-RECTIFIER;1N4007,1000V,1A,DO-41,TP	
D11	0402-000137	DIODE-RECTIFIER;1N4007,1000V,1A,DO-41,TP	
D12	0402-000137	DIODE-RECTIFIER;1N4007,1000V,1A,DO-41,TP	
D13	0402-000137	DIODE-RECTIFIER;1N4007,1000V,1A,DO-41,TP	
D14	0402-001041	DIODE-RECTIFIER;ERA22-10,1000V,500mA,MSR	
D15	0402-001041	DIODE-RECTIFIER;ERA22-10,1000V,500mA,MSR	
D50	0402-001062	DIODE-RECTIFIER;SF10SC9,90V,10A,FTO-220,	
D52	0407-000116	DIODE-ARRAY;DAP202K,80V,100mA,CK2-3,SOT-	
D53	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	
D54	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	
D55	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	
F10	3601-000207	FUSE-CARTRIDGE;250V,1A,TIME-LAG,GLASS,5.	
IC10	1203-002180	IC-PWM CONTROLLER;5M0265,TO220F-4L,4P,39	
IC50	AC14-12006D	IC;KA431Z,TO-92,TAPING	
IC51	AC14-12001K	IC;KA324,-,-	
J10	AC38-12001U	WIRE-JUMPER(H-WRAP);1007#26,120M/M	
J11	AC38-12001U	WIRE-JUMPER(H-WRAP);1007#26,120M/M	
J50	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
J51	AC38-12001U	WIRE-JUMPER(H-WRAP);1007#26,120M/M	
J52	AC38-12001U	WIRE-JUMPER(H-WRAP);1007#26,120M/M	
J53	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
J55	AC38-12001U	WIRE-JUMPER(H-WRAP);1007#26,120M/M	
J56	AC38-12001U	WIRE-JUMPER(H-WRAP);1007#26,120M/M	
J57	AC38-12001U	WIRE-JUMPER(H-WRAP);1007#26,120M/M	
J61	AC38-12001U	WIRE-JUMPER(H-WRAP);1007#26,120M/M	
L50	AC27-12001N	COIL CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
LF10	AC27-32001F	COIL-LINE FILTER;BSF-2123,20MH,2OHM,ST,-	
PC10	0604-000119	PHOTO-COUPLER;TR,200-400%,200mW,DIL-4,ST	
Q52	0501-000457	TR-SMALL SIGNAL;MMBT2222A,NPN,350MW,SOT-	
R00	2007-000477	R-CHIP;1MOHM,5%,1/10W,DA,TP,2012	
R10	2007-000481	R-CHIP;1MOHM,5%,1/8W,DA,TP,3216	
R11	2007-000481	R-CHIP;1MOHM,5%,1/8W,DA,TP,3216	
R13	2003-000771	R-METAL OXIDE(S);68Kohm,5%,2W,AA,TP,4x12	
R14	2007-000598	R-CHIP;22OHM,5%,1/8W,DA,TP,3216	
R15	2007-000768	R-CHIP;330OHM,5%,1/8W,DA,TP,3216	
R16	2007-000768	R-CHIP;330OHM,5%,1/8W,DA,TP,3216	
R17	2007-001212	R-CHIP;82KOHM,5%,1/8W,DA,TP,3216	
R18	2007-001212	R-CHIP;82KOHM,5%,1/8W,DA,TP,3216	
R19	2007-001212	R-CHIP;82KOHM,5%,1/8W,DA,TP,3216	
R20	2007-001212	R-CHIP;82KOHM,5%,1/8W,DA,TP,3216	
R21	2001-000374	R-CARBON;15OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R30	2001-000739	R-CARBON;4.7MOHM,5%,1/8W,AA,TP,1.8X3.2M	
R30	2201-001005	C-CERAMIC,DISC;2.2NF,20%,400V,Y5U,TP,11X	
R30A	2201-001005	C-CERAMIC,DISC;2.2NF,20%,400V,Y5U,TP,11X	
R50	2007-000472	R-CHIP;1KOHM,5%,1/8W,DA,TP,3216	
R51	2007-000472	R-CHIP;1KOHM,5%,1/8W,DA,TP,3216	
R53	2007-000868	R-CHIP;4.7KOHM,1%,1/10W,DA,TP,2012	
R54	2007-000868	R-CHIP;4.7KOHM,1%,1/10W,DA,TP,2012	
R55	2007-000312	R-CHIP;10OHM,5%,1/8W,DA,TP,3216	
R57	2007-000938	R-CHIP;47KOHM,1%,1/10W,DA,TP,2012	
R58	2007-001205	R-CHIP;82KOHM,1%,1/10W,DA,TP,2012	
R59	2007-000868	R-CHIP;4.7KOHM,1%,1/10W,DA,TP,2012	
R60	2007-000771	R-CHIP;33KOHM,1%,1/10W,DA,TP,2012	
R61	2007-000395	R-CHIP;150KOHM,5%,1/10W,DA,TP,2012	
R62	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012	
R63	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
R64	2007-001205	R-CHIP;82KOHM,1%,1/10W,DA,TP,2012	
R65	2007-000868	R-CHIP;4.7KOHM,1%,1/10W,DA,TP,2012	
R66	2007-000406	R-CHIP;15KOHM,1%,1/10W,DA,TP,2012	
R68	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012	
R70	2007-000546	R-CHIP;20KOHM,5%,1/10W,DA,TP,2012	
R71	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R72	2007-000582	R-CHIP;22KOHM,1%,1/10W,DA,TP,2012	
R74	2007-001205	R-CHIP;82KOHM,1%,1/10W,DA,TP,2012	
R76	2005-000102	R-WIRE WOUND;0.1ohm,1%,1W,AA,TP,4.5x11mm	
R77	2007-000068	R-CHIP;470KOHM,5%,1/10W,DA,TP,2012	
R79	2007-001067	R-CHIP;6.8KOHM,1%,1/10W,DA,TP,2012	
R80	2007-000477	R-CHIP;1MOHM,5%,1/10W,DA,TP,2012	
T10	AD26-00026A	TRANS POWER;AA-E6,AA-E6,1.4mH,6P,100~260	
VR50	2101-001049	VR-ROTARY;500ohm,-,-,-	

MEMO

3. Schematic Diagrams

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Note

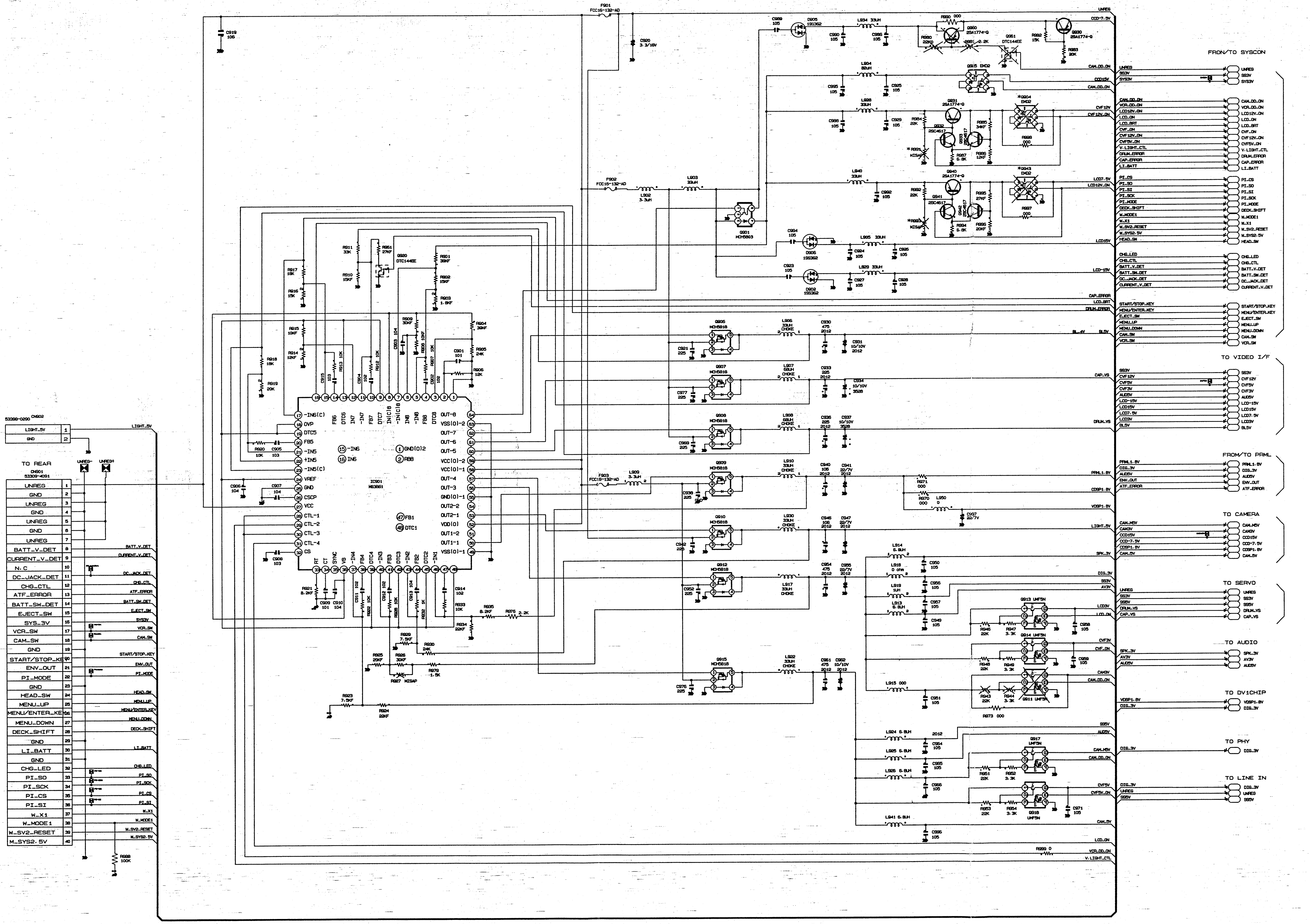
For schematic Diagram
- Resistors are in ohms, 1/8W unless otherwise noted.
- Circled numbers refer to waveforms.

Special note :
Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

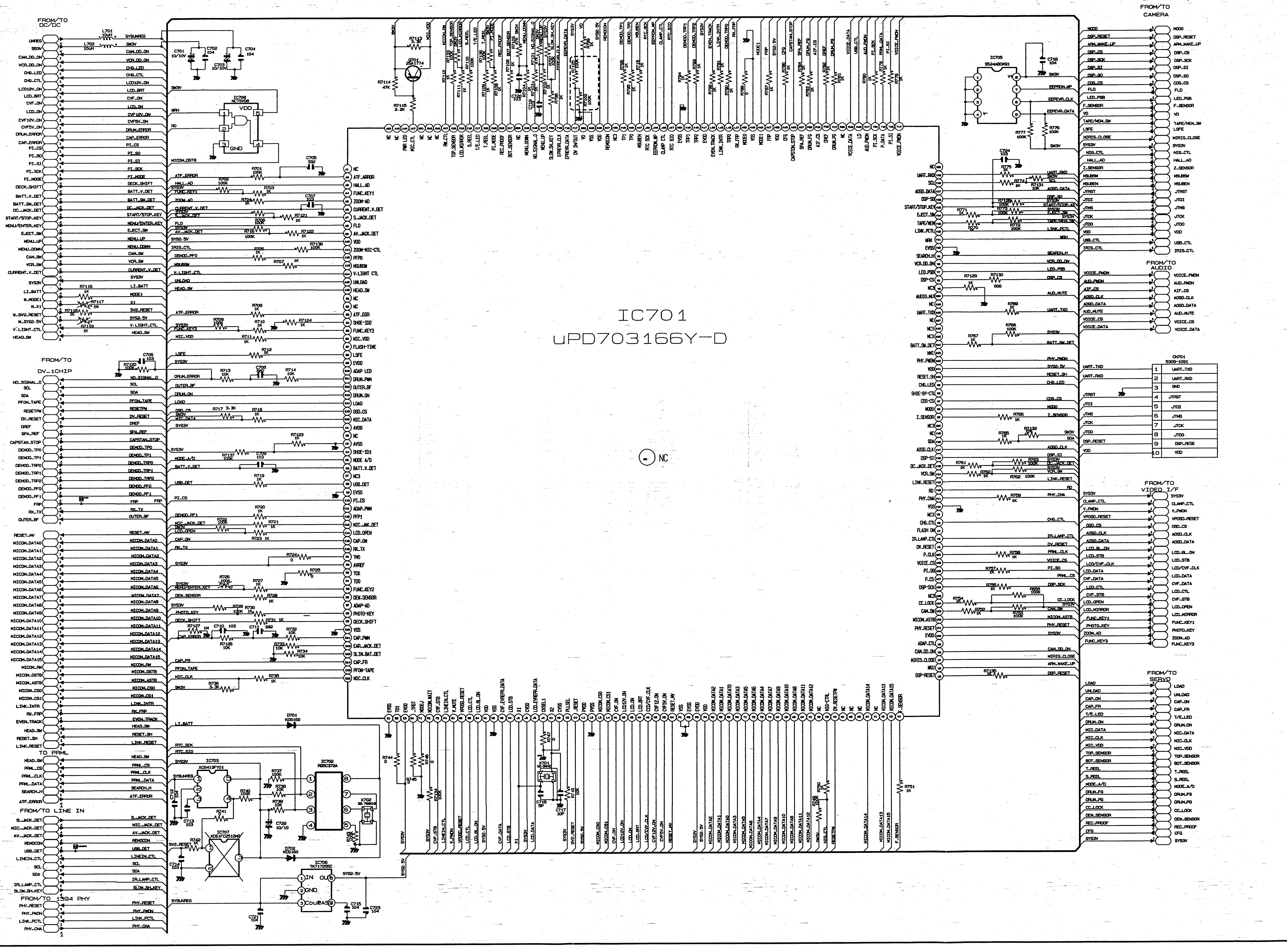
Note :
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

Important safety notices :
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, Use only the same type.

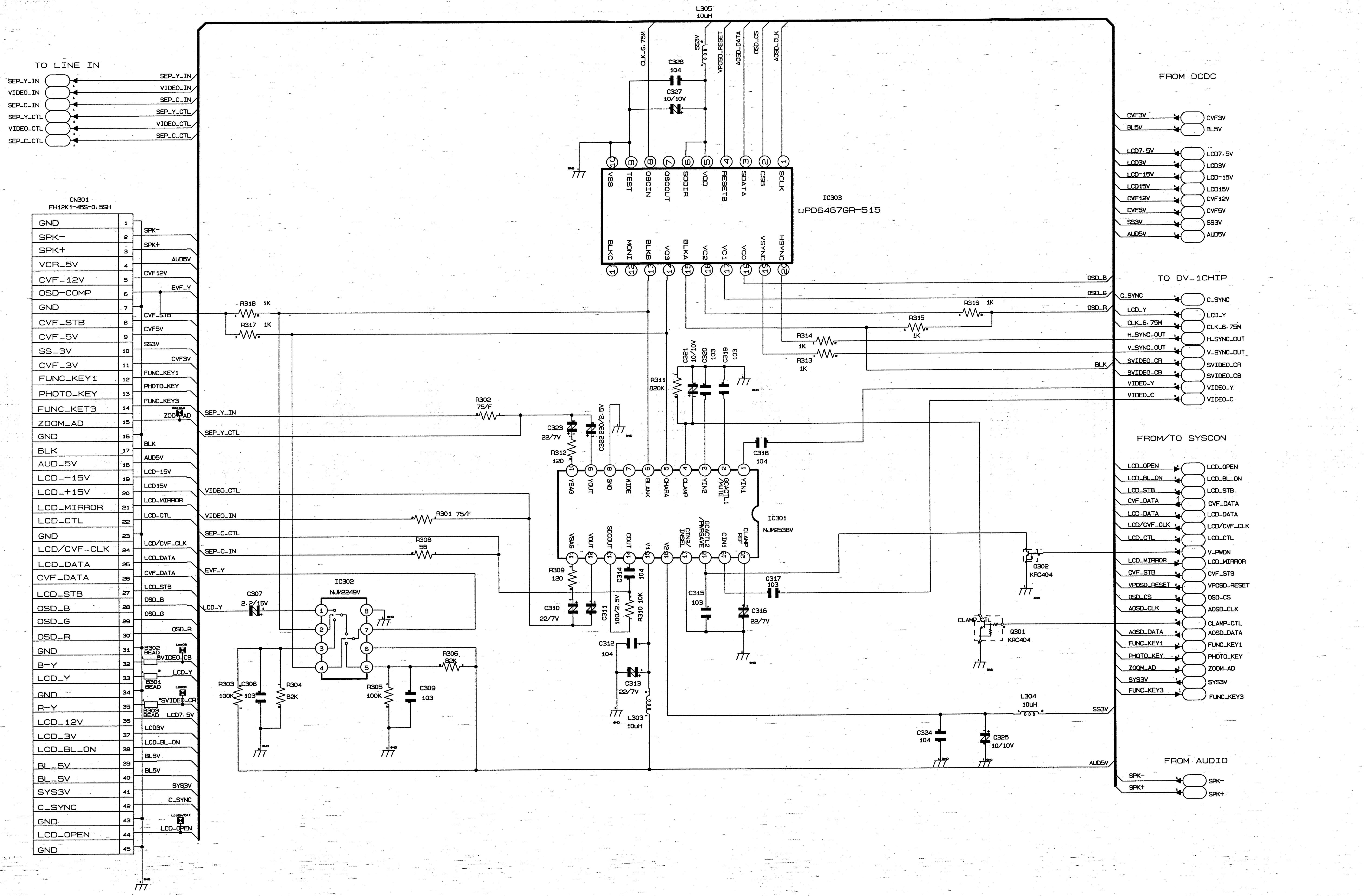
3-1 DC/DC Converter (Main)


53398-0290 CN902
LIGHT_5V 1
GND 2
TO REAR
CN901
53309-4091
UNREG 1
GND 2
UNREG 3
GND 4
UNREG 5
GND 6
UNREG 7
BATT_V_DET 8
CURRENT_V_DET 9
N. C 10
DC_JACK_DET 11
CHG_CTL 12
ATF_ERROR 13
BATT_SW_DET 14
EJECT_SW 15
SYS_3V 16
VCR_SW 17
CAM_SW 18
GND 19
START/STOP_KEY 20
ENV_OUT 21
PI_MODE 22
GND 23
HEAD_SW 24
MENU_UP 25
MENU/ENTER_KEY 26
MENU_DOWN 27
DECK_SHIFT 28
GND 29
LI_BATT 30
GND 31
CHG_LED 32
PI_SO 33
PI_SCK 34
PI_CS 35
PI_SI 36
W_X1 37
W_MODE1 38
W_SV2_RESET 39
M_SYS2. 5V 40
UNREG-
UNREG+
R988 100K
IC901 MB3881
F901 FCC16-132-AD
F902 FCC16-132-AD
F903 FCC16-132-AD
FRON/TO SYSCON
UNREG
SS3V
SYS3V
CAM_DD_ON
VCR_DD_ON
LCD12V_ON
LCD_ON
LCD_BRT
CVF_ON
CVF12V_ON
CVF5V_ON
V.LIGHT_CTL
DRUM_ERROR
CAP_ERROR
LI_BATT
PI_CS
PI_SO
PI_SI
PI_SCK
PI_MODE
DECK_SHIFT
W_MODE1
W_X1
W_SV2_RESET
W_SYS2.5V
HEAD_SW
CHG_LED
CHG_CTL
BATT_V_DET
BATT_SW_DET
DC_JACK_DET
CURRENT_V_DET
START/STOP_KEY
MENU/ENTER_KEY
EJECT_SW
MENU_UP
MENU_DOWN
CAM_SW
VCR_SW
TO VIDEO I/F
SS3V
CVF12V
CVF5V
CVF3V
AUD5V
LCD-15V
LCD15V
LCD7.5V
LCD3V
BL5V
FROM/TO PRML
PRML1.8V
DIG_3V
AUD5V
ENV_OUT
ATF_ERROR
TO CAMERA
CAM_M5V
CAM3V
CCD15V
CCD-7.5V
CDSP1.8V
CAM_5V
TO SERVO
UNREG
SS3V
SS5V
DRUM_VS
CAP_VS
TO AUDIO
SPK_3V
AV3V
AUD5V
TO DV1CHIP
VDSP1.8V
DIG_3V
TO PHY
DIG_3V
TO LINE IN
DIG_3V
UNREG
SS5V

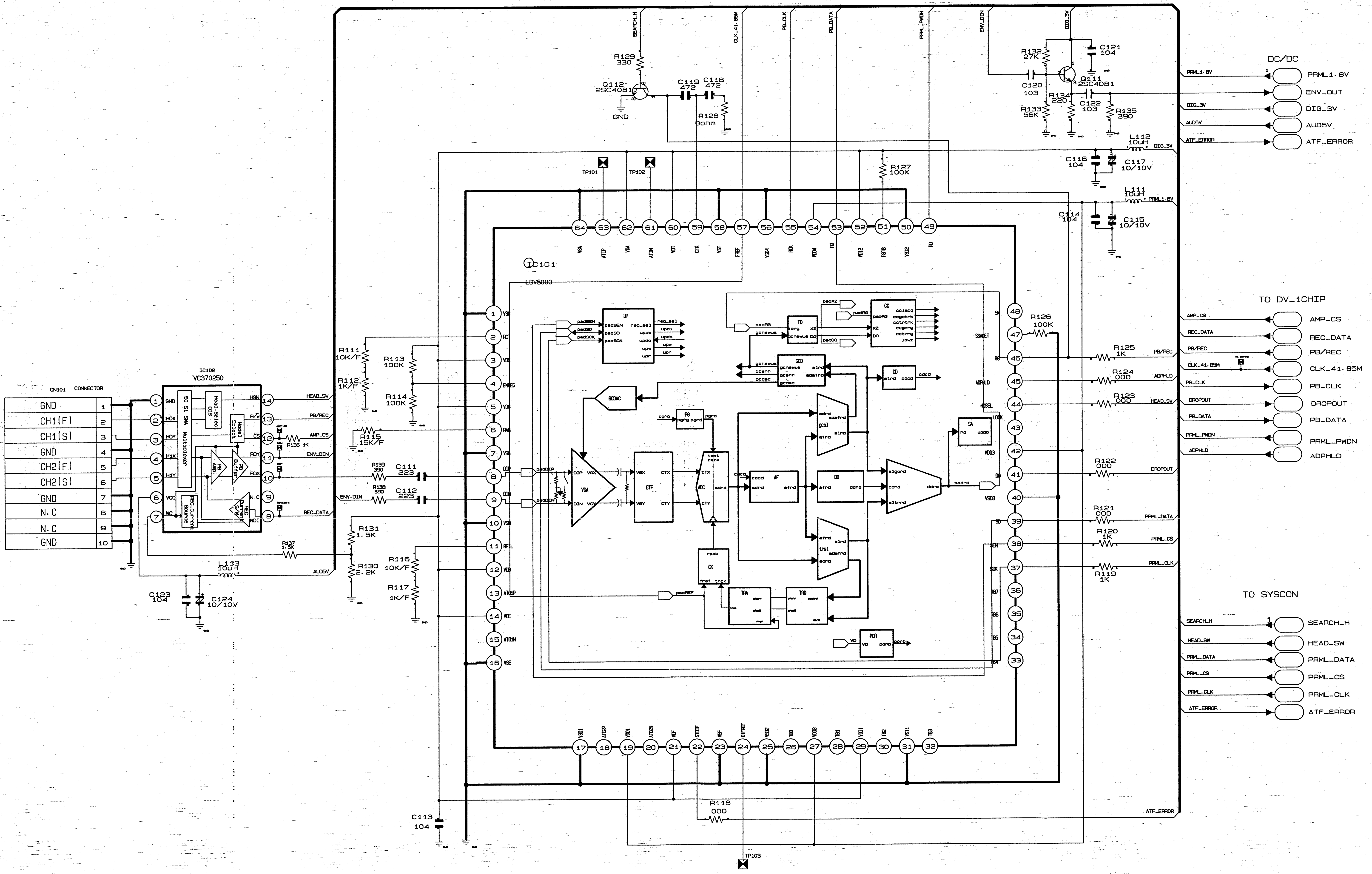
3-2 System Control (Main)


FROM/TO DC/DC
FROM/TO DV_1CHIP
TO PRML
FROM/TO LINE IN
FROM/TO 1394 PHY
FROM/TO CAMERA
FROM/TO AUDIO
FROM/TO VIDEO I/F
FROM/TO SERVO
IC701
uPD703166Y-D
NC
IC705
S524A60X91
IC708
NC7SV08
VDD
GND
IC703
XC6413FY01
IC702
RS5C372A
IC707
XC61FC2512M
IC706
TK71725SC
IN
OUT
GND
CONT
CN701
5309-1091
1 UART_TXD
2 UART_RXD
3 GND
4 JTRST
5 JTDI
6 JTMS
7 JTCK
8 JTDO
9 DSP_RESET
10 VDD
L701
L702
X701
X702
D701
KDS160
D702
KDS160
Q701
2SA1774
UNREG
SYSUNREG
SS3V
SYS3V
SYS2.5V

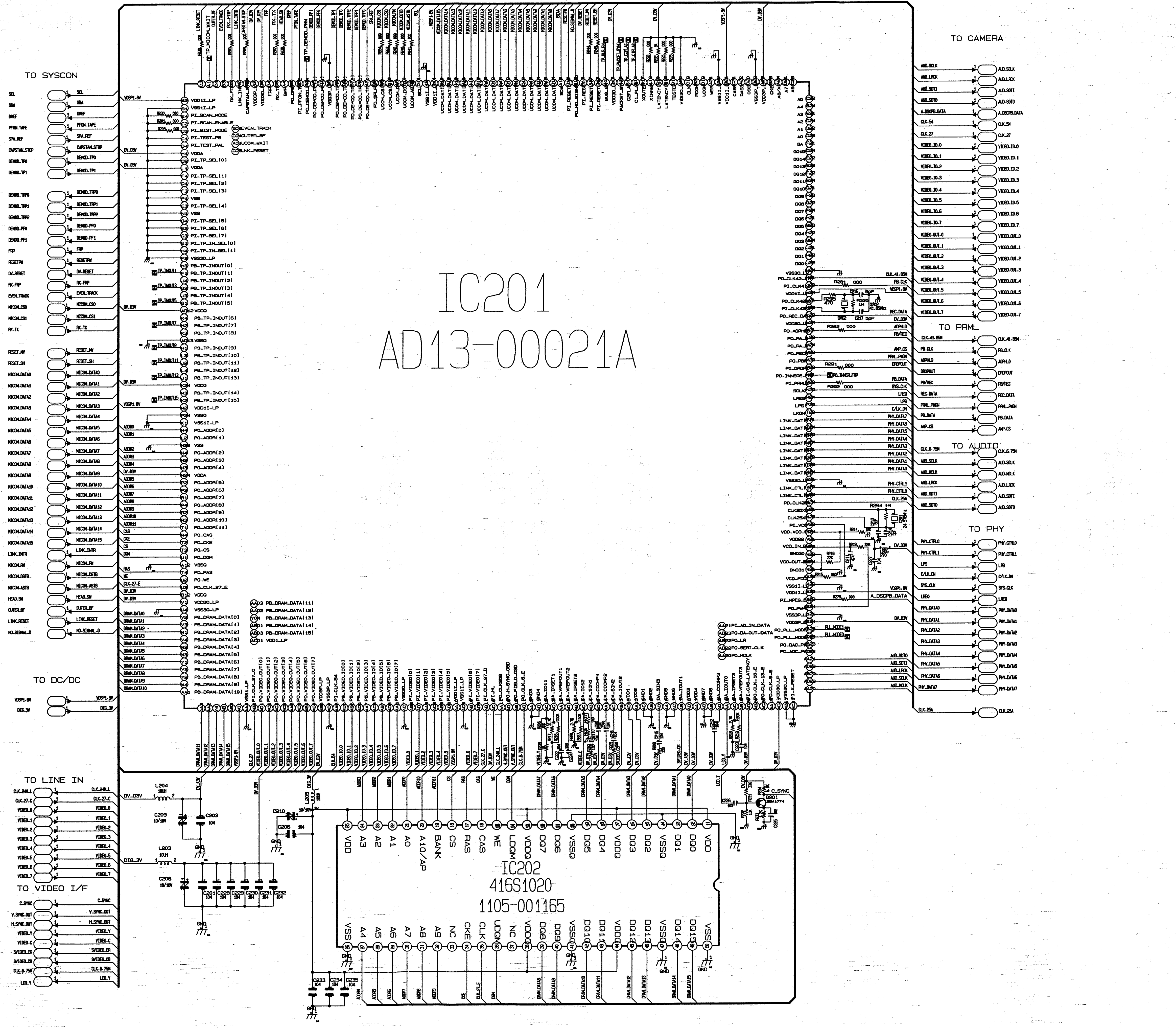
3-3 Video I/F (Main)


TO LINE IN
SEP_Y_IN
VIDEO_IN
SEP_C_IN
SEP_Y_CTL
VIDEO_CTL
SEP_C_CTL
CN301
FH12K1-45S-0.5SH
GND
SPK-
SPK+
VCR_5V
CVF_12V
OSD-COMP
GND
CVF_STB
CVF_5V
SS_3V
CVF_3V
FUNC_KEY1
PHOTO_KEY
FUNC_KET3
ZOOM_AD
GND
BLK
AUD_5V
LCD_-15V
LCD_+15V
LCD_MIRROR
LCD_CTL
GND
LCD/CVF_CLK
LCD_DATA
CVF_DATA
LCD_STB
OSD_B
OSD_G
OSD_R
GND
B-Y
LCD_Y
GND
R-Y
LCD_12V
LCD_3V
LCD_BL_ON
BL_5V
BL_5V
SYS3V
C_SYNC
GND
LCD_OPEN
GND
L305
10uH
CLK_6.75M
SS3V
VPOSD_RESET
AOSD_DATA
OSD_CS
AOSD_CLK
C328
104
C327
10/10V
IC303
uPD6467GR-515
VSS
TEST
OSCIN
OSCOUT
SODIR
VDD
RESETB
SDATA
CSB
SCLK
BLKC
MONI
BLKB
VC3
BLKA
VC2
VC1
VCO
VSYNC
HSYNC
R318 1K
R317 1K
R316 1K
R315
1K
R314
1K
R313
1K
C321
10/10V
C320
103
C319
103
R311
820K
R302
75/F
C323
22/7V
C322 220/2.5V
R312
120
C318
104
IC301
NJM2538V
YSAG
YOUT
GND
WIDE
BLANK
CHARA
CLAMP
YIN2
GCACTL1 /MUTE
YIN1
VSAG
VOUT
SCOUT
COUT
V1
V2
CIN2/ INSEL
GCACTL2 /PWRSAVE
CIN1
CLAMP REF
R301 75/F
R308
56
R309
120
C314
104
C311
100/2.5V
R310 10K
C310
22/7V
C315
103
C316
22/7V
C317
103
C312
104
C313
22/7V
L303
10uH
IC302
NJM2249V
C307
2.2/16V
R303
100K
C308
103
R304
82K
R305
100K
C309
103
R306
82K
Q302
KRC404
Q301
KRC404
CLAMP_CTL
L304
10uH
C324
104
C325
10/10V
B302
BEAD
B301
BEAD
B303
BEAD
FROM DCDC
CVF3V
BL5V
LCD7.5V
LCD3V
LCD-15V
LCD15V
CVF12V
CVF5V
SS3V
AUD5V
TO DV_1CHIP
OSD_B
OSD_G
OSD_R
C_SYNC
LCD_Y
CLK_6.75M
H_SYNC_OUT
V_SYNC_OUT
SVIDEO_CR
SVIDEO_CB
VIDEO_Y
VIDEO_C
BLK
FROM/TO SYSCON
LCD_OPEN
LCD_BL_ON
LCD_STB
CVF_DATA
LCD_DATA
LCD/CVF_CLK
LCD_CTL
V_PWDN
LCD_MIRROR
CVF_STB
VPOSD_RESET
OSD_CS
AOSD_CLK
CLAMP_CTL
AOSD_DATA
FUNC_KEY1
PHOTO_KEY
ZOOM_AD
SYS3V
FUNC_KEY3
FROM AUDIO
SPK-
SPK+

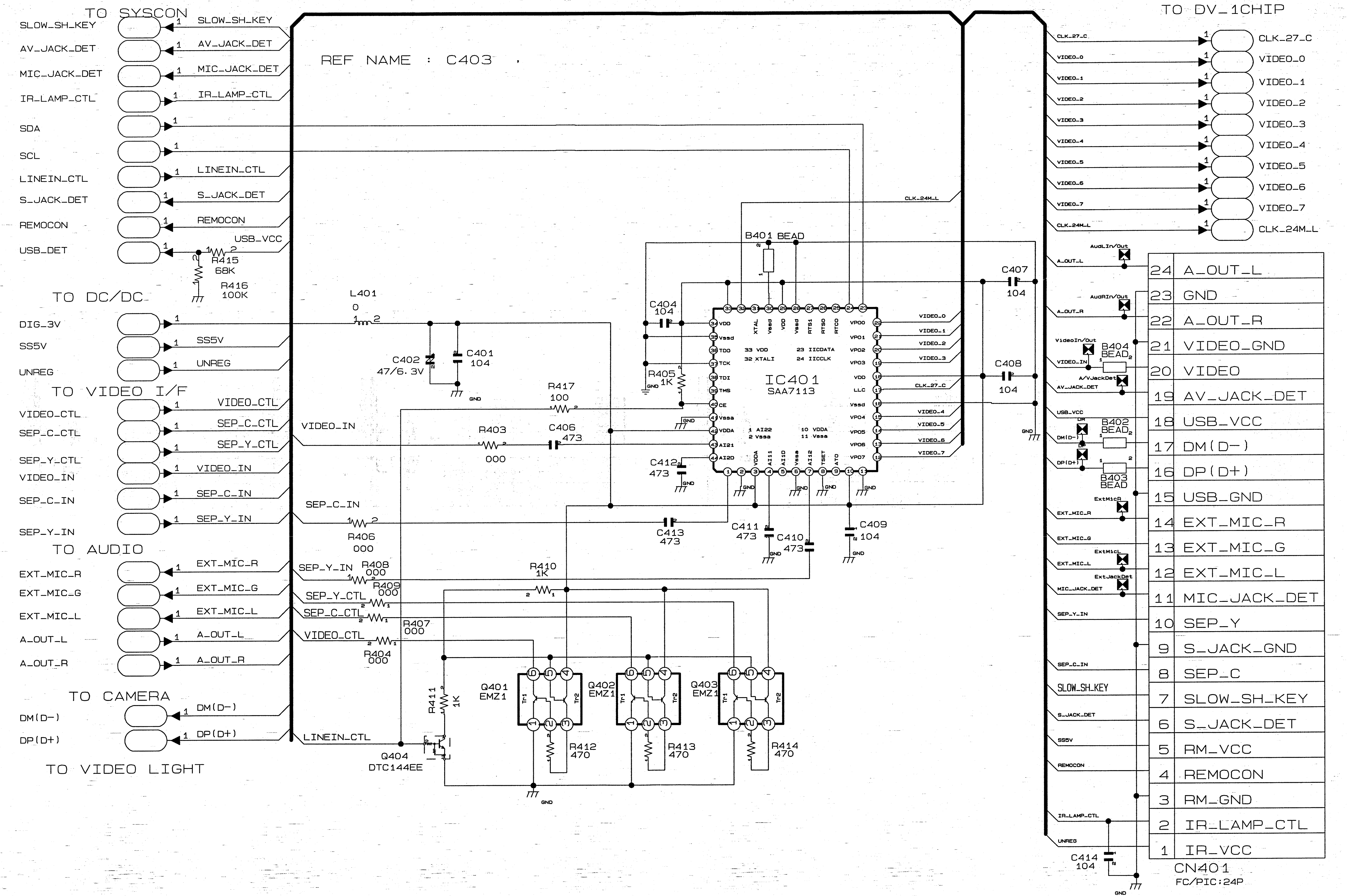
3-4 Pre-Amp PRML. (Main)


CN101 CONNECTOR
GND
CH1(F)
CH1(S)
GND
CH2(F)
CH2(S)
GND
N.C
N.C
GND
IC102
VC370250
HEAD_SW
PB/REC
AMP_CS
ENV_DIN
REC_DATA
AUD5V
R136 1K
R137 1.5K
L113 10uH
C123 104
C124 10/10V
R111 10K/F
R112 1K/F
R113 100K
R114 100K
R115 15K/F
R139 390
R138 390
C111 223
C112 223
R131 1.5K
R130 2.2K
R116 10K/F
R117 1K/F
C113 104
IC101
LDV5000
R129 330
Q112 2SC4081
GND
C119 472
C118 472
R128 0ohm
SEARCH_H
CLK_41.85M
PB_CLK
PB_DATA
PRML_PWDN
ENV_DIN
DIG_3V
R132 27K
C121 104
C120 103
Q111 2SC4081
R134 220
C122 103
R133 56K
R135 390
L112 10uH
C116 104
C117 10/10V
L111 10uH
C114 104
C115 10/10V
R127 100K
TP101
TP102
TP103
R126 100K
R125 1K
R124 000
R123 000
R122 000
R121 000
R120 1K
R119 1K
R118 000
DC/DC
PRML1.8V
ENV_OUT
DIG_3V
AUD5V
ATF_ERROR
TO DV_1CHIP
AMP_CS
REC_DATA
PB/REC
CLK_41.85M
PB_CLK
DROPOUT
PB_DATA
PRML_PWDN
ADPHLD
TO SYSCON
SEARCH_H
HEAD_SW
PRML_DATA
PRML_CS
PRML_CLK
ATF_ERROR

3-5 DV-1chip

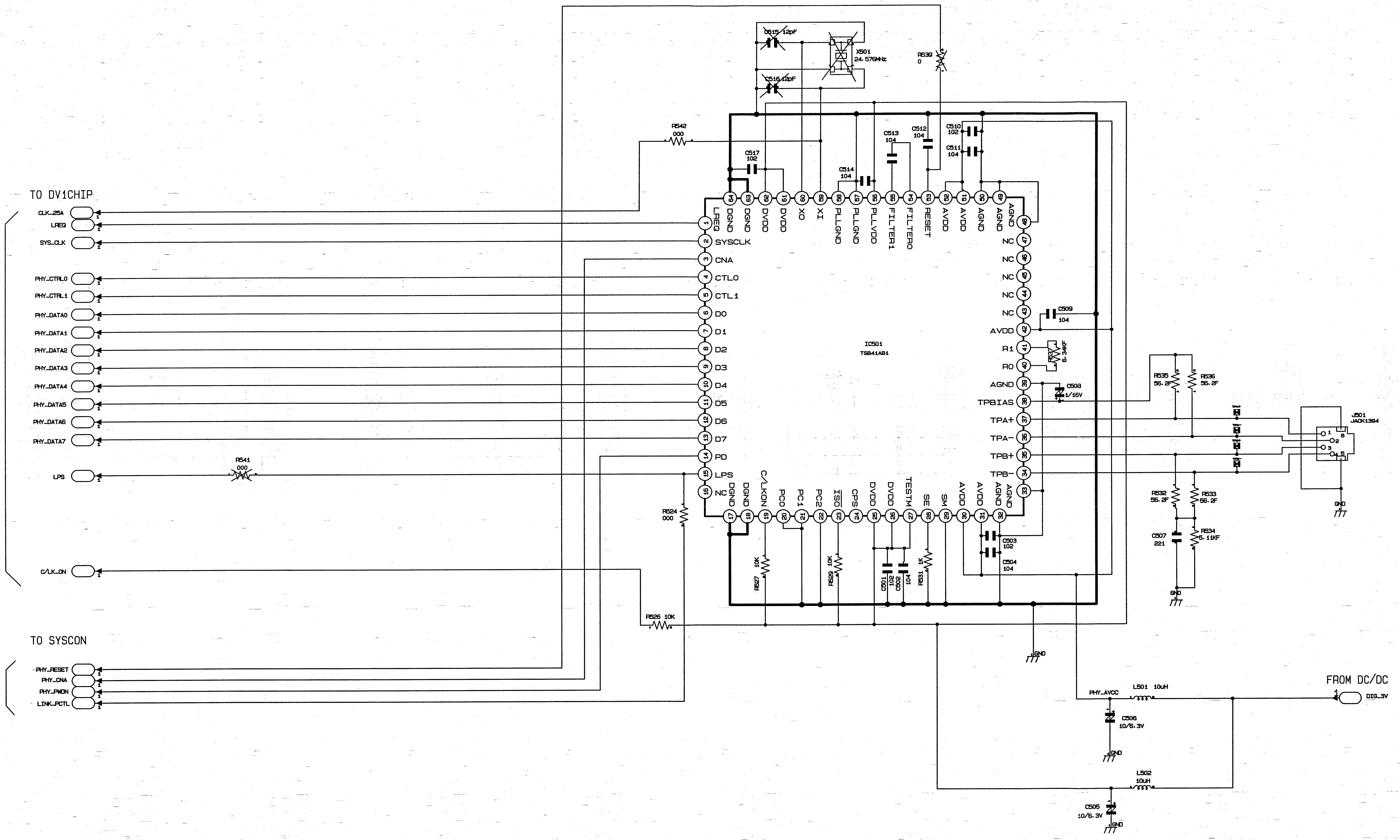

TO SYSCON
TO CAMERA
TO PRML
TO AUDIO
TO PHY
TO DC/DC
TO LINE IN
TO VIDEO I/F
IC201
AD13-00021A
IC202
416S1020
1105-001165
VDD
A3
A2
A1
A0
A10/AP
BANK
CS
RAS
CAS
WE
LDQM
VDDQ
DQ7
DQ6
VSSQ
DQ5
DQ4
VDDQ
DQ3
DQ2
VSSQ
DQ1
DQ0
VDD
VSS
A4
A5
A6
A7
A8
A9
NC
CKE
CLK
UDQM
NC
VDDQ
DQ8
DQ9
VSSQ
DQ10
DQ11
VDDQ
DQ12
DQ13
VSSQ
DQ14
DQ15
VSS
L204
L203
C209
C203
C208
C210
C205
C206
C201
C226
C229
C230
C231
C232
C233
C234
C235
Q201
C_SYNC
GND
DV_D3V
DIG_3V
VDSP1.8V

3-6 Line-In

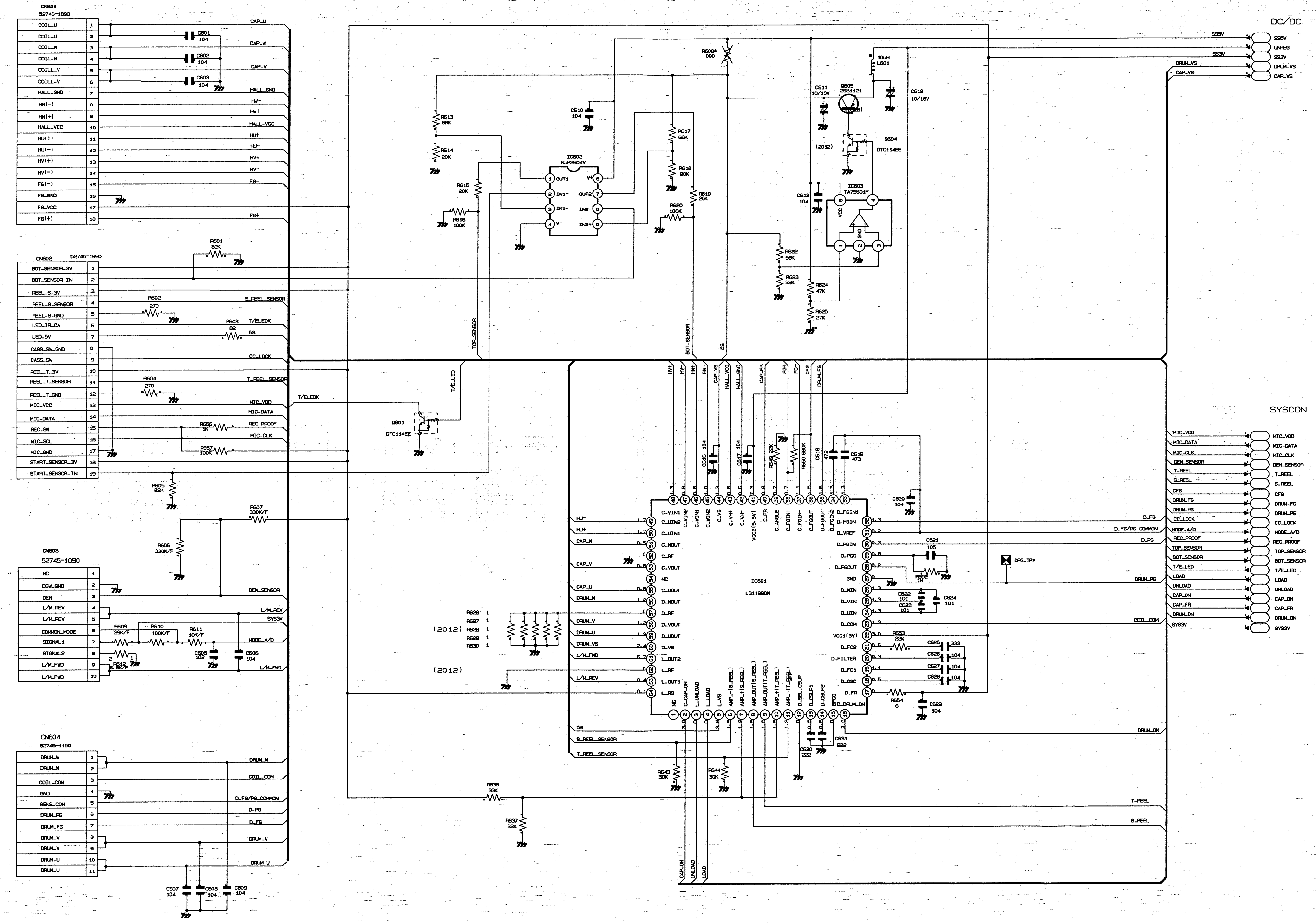


TO SYSCON
SLOW_SH_KEY
AV_JACK_DET
MIC_JACK_DET
IR_LAMP_CTL
SDA
SCL
LINEIN_CTL
S_JACK_DET
REMOCON
USB_DET
USB_VCC
R415 68K
R416 100K
TO DC/DC
DIG_3V
SS5V
UNREG
L401 0
C402 47/6.3V
C401 104
TO VIDEO I/F
VIDEO_CTL
SEP_C_CTL
SEP_Y_CTL
VIDEO_IN
SEP_C_IN
SEP_Y_IN
TO AUDIO
EXT_MIC_R
EXT_MIC_G
EXT_MIC_L
A_OUT_L
A_OUT_R
TO CAMERA
DM(D-)
DP(D+)
TO VIDEO LIGHT
REF NAME : C403
B401 BEAD
C404 104
R405 1K
R417 100
R403 000
C406 473
C412 473
R406 000
C413 473
C411 473
C410 473
C409 104
R408 000
R409 000
R410 1K
R407 000
R404 000
IC401
SAA7113
C407 104
C408 104
CLK_24M_L
CLK_27_C
VIDEO_0
VIDEO_1
VIDEO_2
VIDEO_3
VIDEO_4
VIDEO_5
VIDEO_6
VIDEO_7
Q401 EMZ1
Q402 EMZ1
Q403 EMZ1
R411 1K
Q404 DTC144EE
R412 470
R413 470
R414 470
GND
TO DV_1CHIP
CLK_27_C
VIDEO_0
VIDEO_1
VIDEO_2
VIDEO_3
VIDEO_4
VIDEO_5
VIDEO_6
VIDEO_7
CLK_24M_L
AudLIn/Out
AudRIn/Out
VideoIn/Out
B404 BEAD
A/VJackDet
B402 BEAD
B403 BEAD
ExtMicR
ExtMicL
ExtJackDet
24 A_OUT_L
23 GND
22 A_OUT_R
21 VIDEO_GND
20 VIDEO
19 AV_JACK_DET
18 USB_VCC
17 DM(D-)
16 DP(D+)
15 USB_GND
14 EXT_MIC_R
13 EXT_MIC_G
12 EXT_MIC_L
11 MIC_JACK_DET
10 SEP_Y
9 S_JACK_GND
8 SEP_C
7 SLOW_SH_KEY
6 S_JACK_DET
5 RM_VCC
4 REMOCON
3 RM_GND
2 IR_LAMP_CTL
1 IR_VCC
C414 104
CN401
FC/PIC:24P

3-7 PHY (IEEE 1394)

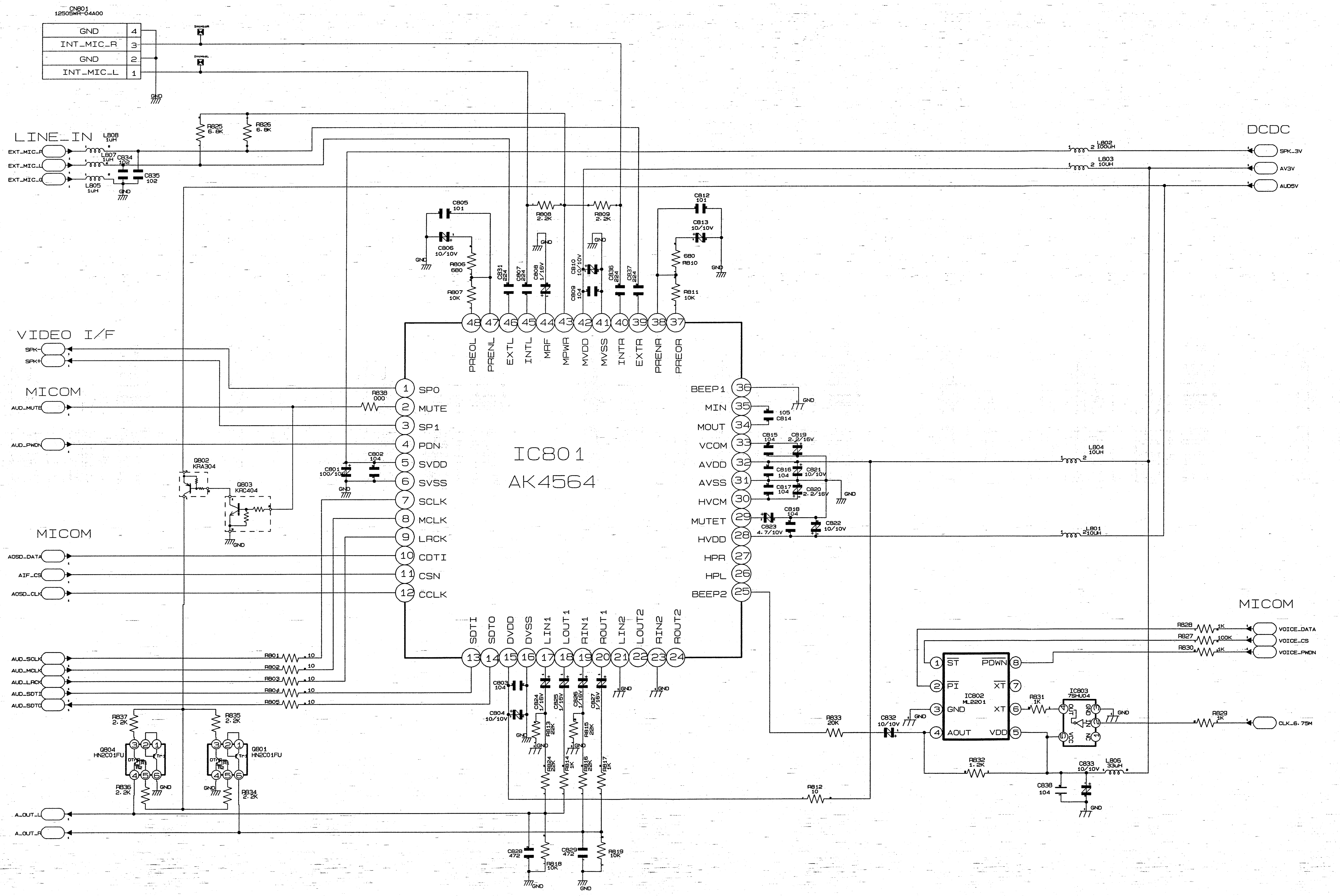

TO DV1CHIP
CLK_25A
LREQ
SYS_CLK
PHY_CTRL0
PHY_CTRL1
PHY_DATA0
PHY_DATA1
PHY_DATA2
PHY_DATA3
PHY_DATA4
PHY_DATA5
PHY_DATA6
PHY_DATA7
LPS
C/LK_ON
TO SYSCON
PHY_RESET
PHY_CNA
PHY_PWDN
LINK_PCTL
R541
000
R542
000
R524
000
R526 10K
C515 12pF
C516 12pF
X501
24.576MHz
R539
0
C517
102
C514
104
C513
104
C512
104
C510
102
C511
104
IC501
TSB41AB1
LREQ
SYSCLK
CNA
CTL0
CTL1
D0
D1
D2
D3
D4
D5
D6
D7
PD
LPS
NC
DGND
DGND
DVDD
DVDD
XO
XI
PLLGND
PLLGND
PLLVDD
FILTER1
FILTER0
RESET
AVDD
AVDD
AGND
AGND
AGND
NC
NC
NC
NC
NC
AVDD
R1
R0
AGND
TPBIAS
TPA+
TPA−
TPB+
TPB−
AGND
AGND
AVDD
AVDD
SM
SE
TESTM
DVDD
DVDD
CPS
ISO
PC2
PC1
PC0
C/LKON
DGND
DGND
C509
104
R537
6.34KF
C508
1/16V
C503
102
C504
104
R527 10K
R529 10K
C501 102
C502 104
R531 1K
R535
56.2F
R536
56.2F
TPA+
TPA−
TPB+
TPB−
J501
JACK1394
R532
56.2F
R533
56.2F
C507
221
R534
5.11KF
GND
GND
GND
PHY_AVCC
L501 10uH
C506
10/6.3V
GND
L502
10uH
C505
10/6.3V
GND
FROM DC/DC
DIG_3V

3-8 Servo

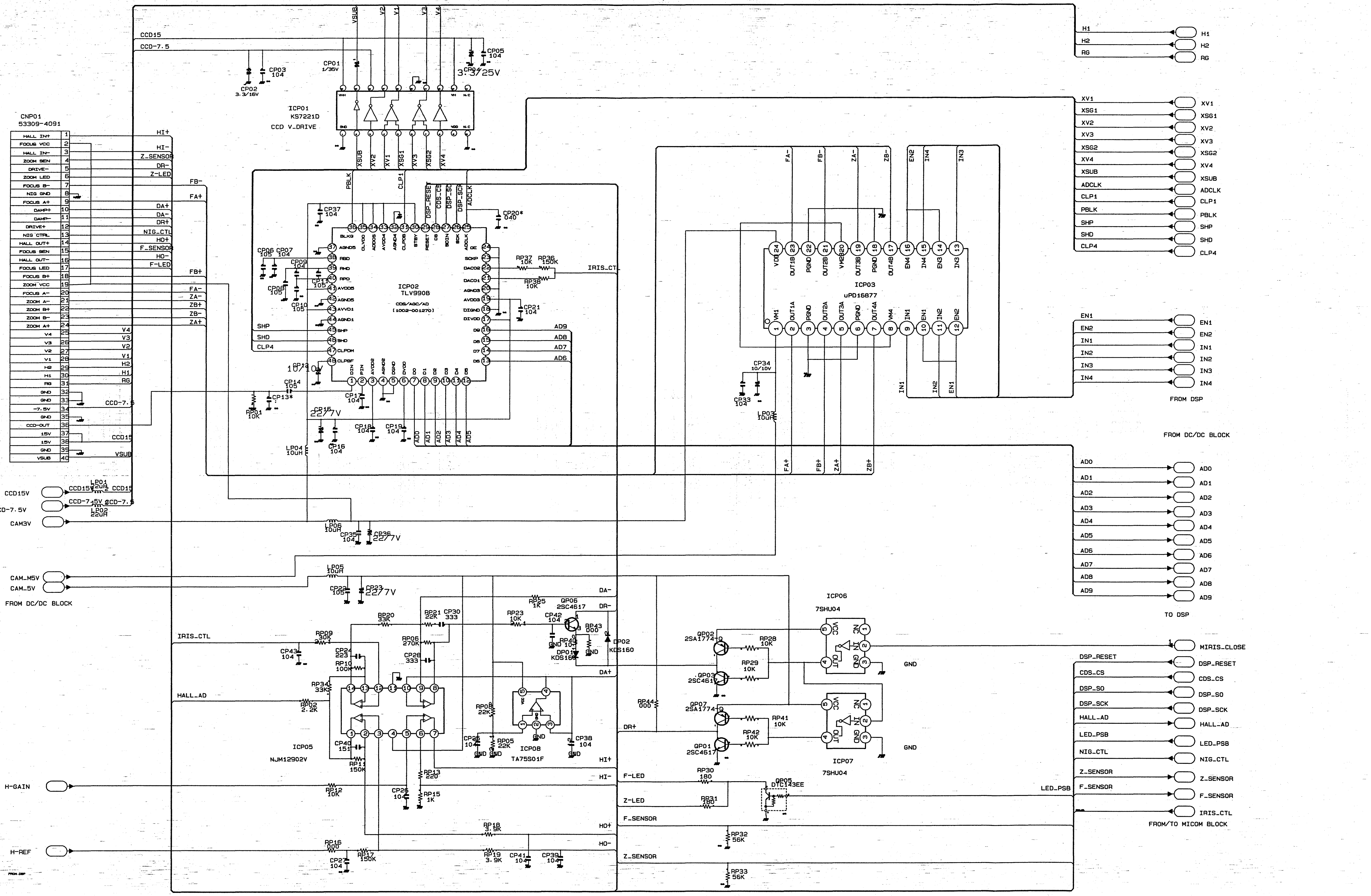


CN601
52745-1890
COIL_U
COIL_U
COIL_W
COIL_W
COILL_V
COILL_V
HALL_GND
HW(-)
HW(+)
HALL_VCC
HU(+)
HU(-)
HV(+)
HV(-)
FG(-)
FG_GND
FG_VCC
FG(+)
CN602 52745-1990
BOT_SENSOR_3V
BOT_SENSOR_IN
REEL_S_3V
REEL_S_SENSOR
REEL_S_GND
LED_IR_CA
LED_5V
CASS_SW_GND
CASS_SW
REEL_T_3V
REEL_T_SENSOR
REEL_T_GND
MIC_VCC
MIC_DATA
REC_SW
MIC_SCL
MIC_GND
START_SENSOR_3V
START_SENSOR_IN
CN603
52745-1090
NC
DEW_GND
DEW
L/M_REV
L/M_REV
COMMON_MODE
SIGNAL1
SIGNAL2
L/M_FWD
L/M_FWD
CN604
52745-1190
DRUM_W
DRUM_W
COIL_COM
GND
SENS_COM
DRUM_PG
DRUM_FG
DRUM_V
DRUM_V
DRUM_U
DRUM_U
IC602
NJM2904V
IC603
TA75S01F
Q605
2SB1121
Q604
DTC114EE
Q601
DTC114EE
L601
10uH
IC601
LB11990W
(2012)
DC/DC
SS5V
UNREG
SS3V
DRUM_VS
CAP_VS
SYSCON
MIC_VDD
MIC_DATA
MIC_CLK
DEW_SENSOR
T_REEL
S_REEL
CFG
DRUM_FG
DRUM_PG
CC_LOCK
MODE_A/D
REC_PROOF
TOP_SENSOR
BOT_SENSOR
T/E_LED
LOAD
UNLOAD
CAP_ON
CAP_FR
DRUM_ON
SYS3V
DPG_TP*

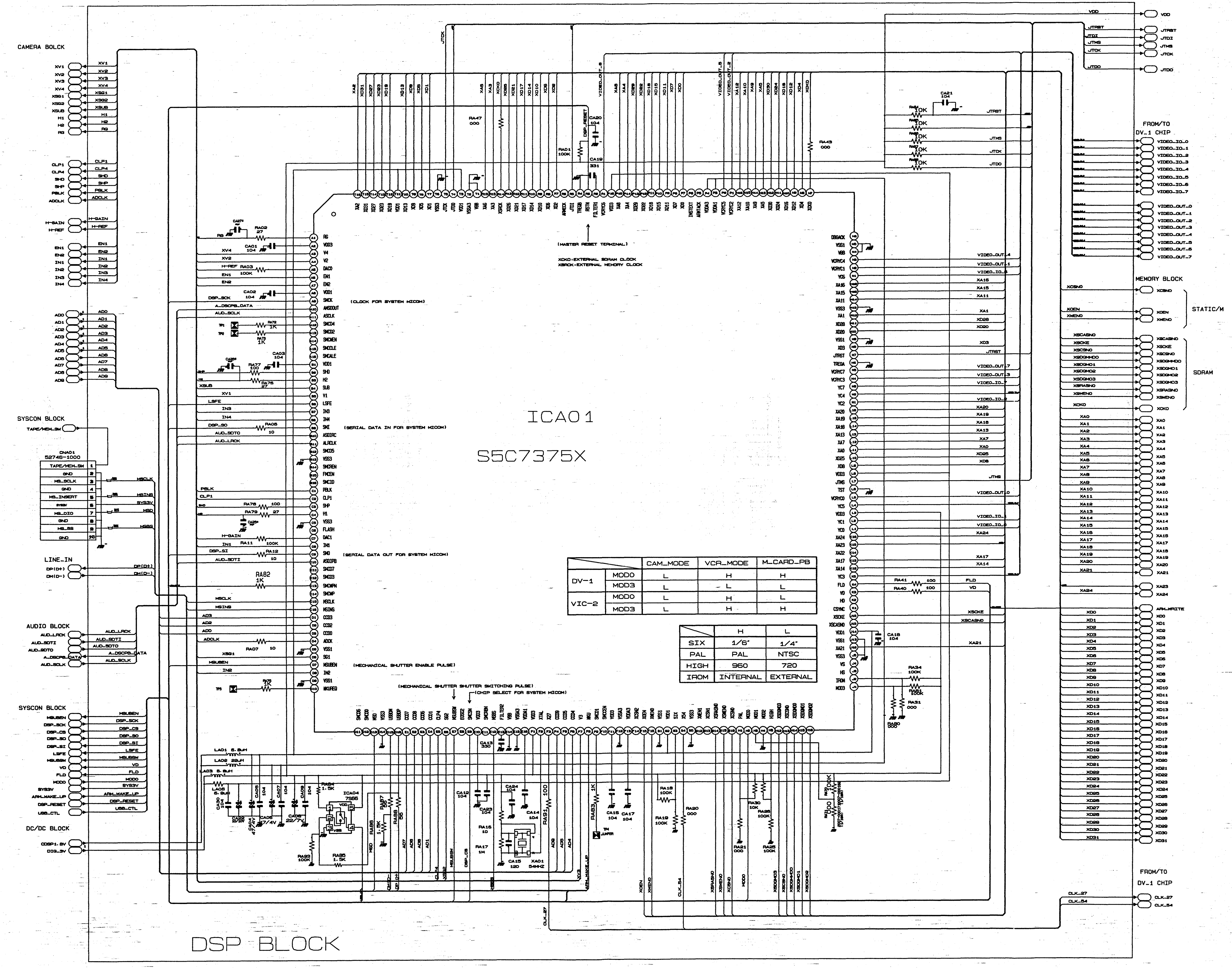
3-9 Audio


CN801
12505WR-04A00
GND 4
INT_MIC_R 3
GND 2
INT_MIC_L 1
LINE_IN
EXT_MIC_R
EXT_MIC_L
EXT_MIC_G
L808 1uH
L807 1uH
L805 1uH
C834 102
C835 102
R825 6.8K
R826 6.8K
DCDC
SPK_3V
AV3V
AUD5V
L802 100uH
L803 10uH
C805 101
C806 10/10V
R806 680
R807 10K
R808 2.2K
R809 2.2K
C831 224
C807 224
C808 1/16V
C810 10/10V
C809 104
C836 224
C837 224
C812 101
C813 10/10V
R810 680
R811 10K
VIDEO I/F
SPK-
SPK+
MICOM
AUD_MUTE
AUD_PWDN
R838 000
Q802 KRA304
Q803 KRC404
C801 100/10V
C802 104
AOSD_DATA
AIF_CS
AOSD_CLK
IC801
AK4564
1 SPO
2 MUTE
3 SP1
4 PDN
5 SVDD
6 SVSS
7 SCLK
8 MCLK
9 LRCK
10 CDTI
11 CSN
12 CCLK
13 SDTI
14 SDTO
15 DVDD
16 DVSS
17 LIN1
18 LOUT1
19 RIN1
20 ROUT1
21 LIN2
22 LOUT2
23 RIN2
24 ROUT2
25 BEEP2
26 HPL
27 HPR
28 HVDD
29 MUTET
30 HVCM
31 AVSS
32 AVDD
33 VCOM
34 MOUT
35 MIN
36 BEEP1
37 PREOR
38 PRENR
39 EXTR
40 INTR
41 MVSS
42 MVDD
43 MPWR
44 MRF
45 INTL
46 EXTL
47 PRENL
48 PREOL
C814 105
C815 104
C819 2.2/16V
C816 104
C821 10/10V
C817 104
C820 2.2/16V
C818 104
C823 4.7/10V
C822 10/10V
L804 10uH
L801 10uH
AUD_SCLK
AUD_MCLK
AUD_LRCK
AUD_SDTI
AUD_SDTO
R801 10
R802 10
R803 10
R804 10
R805 10
C803 104
C804 10/10V
C824 1/16V
C825 1/16V
C826 1/16V
C827 1/16V
R813 22K
R814 1K
R815 22K
R816 22K
R817 1K
R824 22K
R837 2.2K
R835 2.2K
Q804 HN2C01FU
Q801 HN2C01FU
R836 2.2K
R834 2.2K
A_OUT_L
A_OUT_R
C828 472
C829 472
R818 10K
R819 10K
R812 10
R833 20K
C832 10/10V
MICOM
VOICE_DATA
VOICE_CS
VOICE_PWDN
R828 1K
R827 100K
R830 1K
IC802 ML2201
1 ST
2 PI
3 GND
4 AOUT
8 PDWN
7 XT
6 XT
5 VDD
R831 1K
IC803 7SHU04
R829 1K
CLK_6.75M
R832 1.2K
C833 10/10V
L806 33uH
C838 104
GND

3-10 Camera Process


CCD15
CCD-7.5
VSUB
V2
V1
V3
V4
CP01
1/35V
CP03
104
CP02
3.3/16V
CP05
104
CP04
3.3/25V
ICP01
KS7221D
CCD V_DRIVE
XSUB
XV2
XV1
XSG1
XV3
XSG2
XV4
PBLK
CLP1
DSP_RESET
CDS_CS
DSP_SO
DSP_SCK
ADCLK
CP37
104
CP20*
040
CP06
105
CP07
104
CP09
104
CP08
105
CP11
105
CP10
105
ICP02
TLV990B
CDS/AGC/AD
(1002-001270)
RP37
10K
RP36
150K
RP38
10K
IRIS_CTL
CP21
104
SHP
SHD
CLP4
AD9
AD8
AD7
AD6
CP12
10/10V
CP14
105
CP13*
CP17
104
RP01
10K
CP15
22/7V
CP18
104
CP19
104
AD0
AD1
AD2
AD3
AD4
AD5
LP04
10UH
CP16
104
CNP01
53309-4091
HALL IN+
FOCUS VCC
HALL IN-
ZOOM SEN
DRIVE-
ZOOM LED
FOCUS B-
NIG GND
FOCUS A+
DAMP+
DAMP-
DRIVE+
NIG CTRL
HALL OUT+
FOCUS SEN
HALL OUT-
FOCUS LED
FOCUS B+
ZOOM VCC
FOCUS A-
ZOOM A-
ZOOM B+
ZOOM B-
ZOOM A+
V4
V3
V2
V1
H2
H1
RG
GND
-7.5V
CCD-OUT
15V
HI+
HI-
Z_SENSOR
DR-
Z-LED
FB-
FA+
DA+
DA-
DR+
NIG_CTL
HO+
F_SENSOR
HO-
F-LED
FB+
FA-
ZA-
ZB+
ZB-
ZA+
CCD-7.5
CCD15
CCD15V
CCD-7.5V
CAM3V
LP01
22UH
LP02
22UH
LP06
10UH
CP35
104
CP36
22/7V
CAM_M5V
CAM_5V
FROM DC/DC BLOCK
LP05
10UH
CP22
105
CP23
22/7V
ICP03
uPD16877
VDD
OUT1B
PGND
OUT2B
VM820
OUT3B
OUT4B
EN4
IN4
EN3
IN3
VM1
OUT1A
OUT2A
OUT3A
OUT4A
VM4
IN1
EN1
IN2
EN2
CP34
10/10V
CP33
104
LP03
10UH
H1
H2
RG
XV1
XSG1
XV2
XV3
XSG2
XV4
XSUB
ADCLK
CLP1
PBLK
SHP
SHD
CLP4
EN1
EN2
IN1
IN2
IN3
IN4
FROM DSP
AD0
AD1
AD2
AD3
AD4
AD5
AD6
AD7
AD8
AD9
TO DSP
ICP06
7SHU04
QP02
2SA1774
RP28
10K
RP29
10K
QP03
2SC4617
QP07
2SA1774
RP41
10K
RP42
10K
QP01
2SC4617
ICP07
7SHU04
GND
MIRIS_CLOSE
DSP_RESET
CDS_CS
DSP_SO
DSP_SCK
HALL_AD
LED_PSB
NIG_CTL
Z_SENSOR
F_SENSOR
IRIS_CTL
FROM/TO MICOM BLOCK
QP05
DTC143EE
RP30
180
RP31
180
RP32
56K
RP33
56K
RP44
000
F-LED
Z-LED
F_SENSOR
Z_SENSOR
HALL_AD
RP20
33K
RP21
22K
CP30
333
RP09
30K
CP43
104
CP24
223
RP10
100K
RP06
270K
CP28
333
RP34
33K
RP02
2.2K
ICP05
NJM12902V
CP40
151
RP11
150K
RP13
220
CP26
10
RP15
1K
RP12
10K
H-GAIN
H-REF
RP16
000
RP17
150K
CP27
104
RP25
1K
QP06
2SC4617
RP23
10K
CP42
104
RP43
000
RP40
10
DP01
KDS160
DP02
KDS160
RP08
22K
CP25
10
RP05
22K
ICP08
TA75S01F
CP38
104
RP18
3.9K
RP19
3.9K
CP41
104
CP39
104

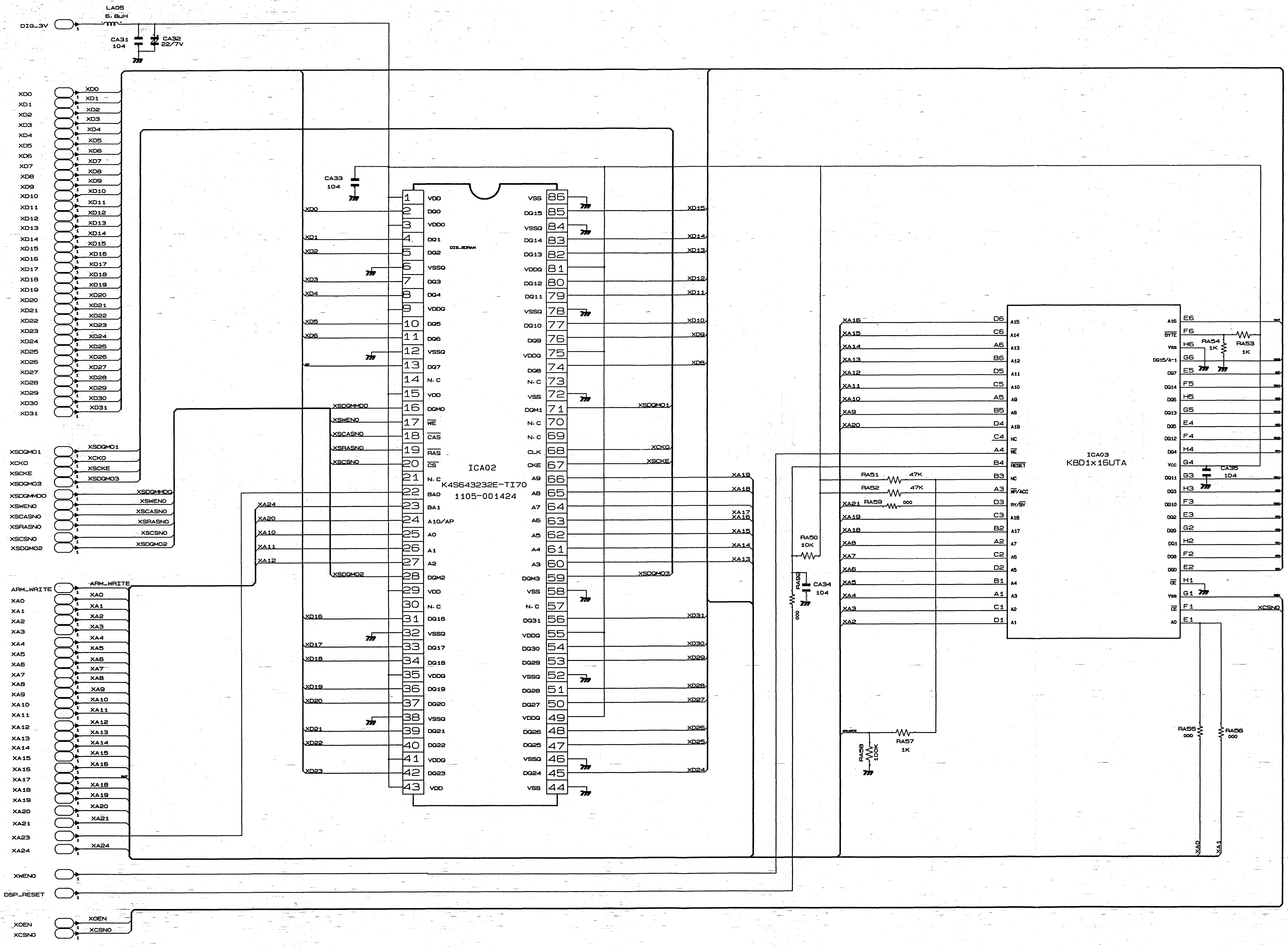
3-11 Camera DSP


SHEET : 8
CAMERA BOLCK
SYSCON BLOCK
LINE_IN
AUDIO BLOCK
SYSCON BLOCK
DC/DC BLOCK
FROM/TO DV_1 CHIP
MEMORY BLOCK
STATIC/M
SDRAM
FROM/TO DV_1 CHIP
ICA01
S5C7375X
(MASTER RESET TERMINAL)
XCKO : EXTERNAL SDRAM CLOCK
XBRCK : EXTERNAL MEMORY CLOCK
(CLOCK FOR SYSTEM MICOM)
(SERIAL DATA IN FOR SYSTEM MICOM)
(SERIAL DATA OUT FOR SYSTEM MICOM)
(MECHANICAL SHUTTER ENABLE PULSE)
(MECHANICAL SHUTTER SHUTTER SWITCHING PULSE)
(CHIP SELECT FOR SYSTEM MICOM)
CNA01
52746-1000
DSP BLOCK

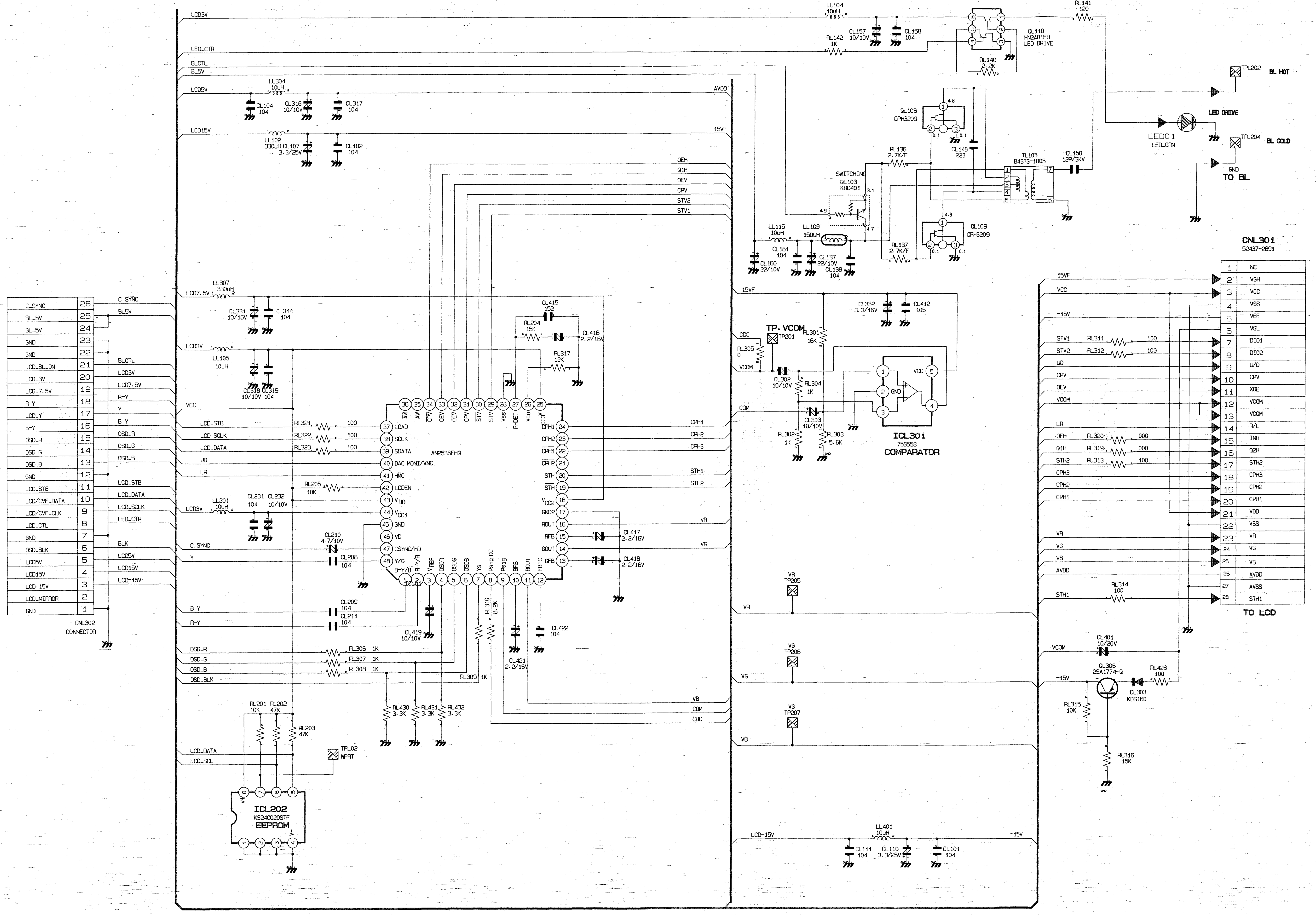
		CAM_MODE	VCR_MODE	M_CARD_PB
DV-1	MOD0	L	H	H
	MOD3	L	L	L
VIC-2	MOD0	L	H	L
	MOD3	L	H	H

	H	L
SIX	1/6"	1/4"
PAL	PAL	NTSC
HIGH	960	720
IROM	INTERNAL	EXTERNAL

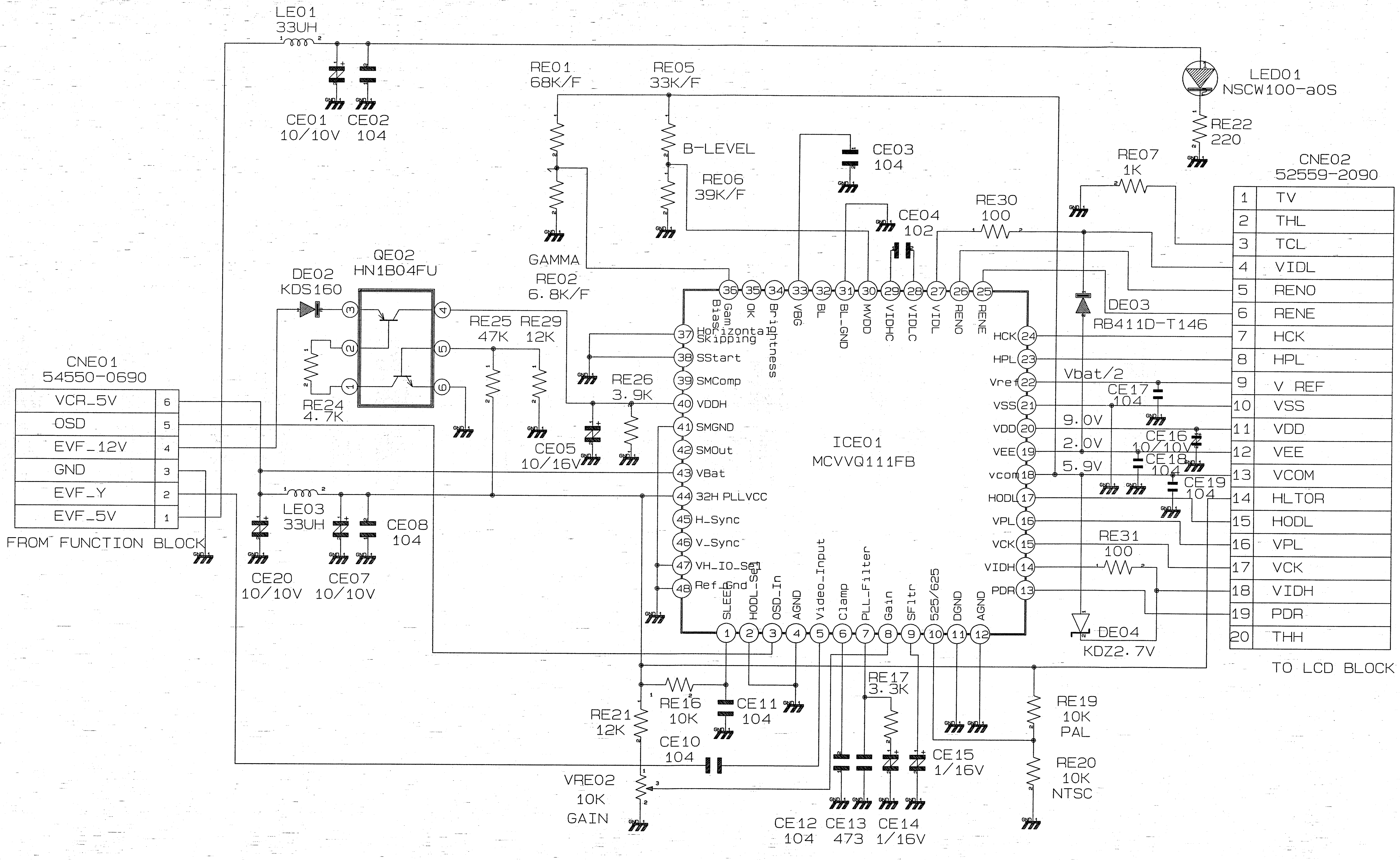
3-12 Camera Memory Block


DIG_3V
LA05
6.8uH
CA31
104
CA32
22/7V
XD0
XD1
XD2
XD3
XD4
XD5
XD6
XD7
XD8
XD9
XD10
XD11
XD12
XD13
XD14
XD15
XD16
XD17
XD18
XD19
XD20
XD21
XD22
XD23
XD24
XD25
XD26
XD27
XD28
XD29
XD30
XD31
XSDQMO1
XCKO
XSCKE
XSDQMO3
XSDQMMDO
XSWENO
XSCASNO
XSRASNO
XSCSNO
XSDQMO2
ARM_WRITE
XA0
XA1
XA2
XA3
XA4
XA5
XA6
XA7
XA8
XA9
XA10
XA11
XA12
XA13
XA14
XA15
XA16
XA17
XA18
XA19
XA20
XA21
XA23
XA24
XWENO
DSP_RESET
XOEN
XCSNO
CA33
104
DIG_SDRAM
ICA02
K4S643232E-TI70
1105-001424
VDD
DQ0
VDDQ
DQ1
DQ2
VSSQ
DQ3
DQ4
VDDQ
DQ5
DQ6
VSSQ
DQ7
N.C
VDD
DQMO
WE
CAS
RAS
CS
N.C
BA0
BA1
A10/AP
A0
A1
A2
DQM2
VDD
N.C
DQ16
VSSQ
DQ17
DQ18
VDDQ
DQ19
DQ20
VSSQ
DQ21
DQ22
VDDQ
DQ23
VDD
VSS
DQ15
VSSQ
DQ14
DQ13
VDDQ
DQ12
DQ11
VSSQ
DQ10
DQ9
VDDQ
DQ8
N.C
VSS
DQM1
N.C
N.C
CLK
CKE
A9
A8
A7
A6
A5
A4
A3
DQM3
VSS
N.C
DQ31
VDDQ
DQ30
DQ29
VSSQ
DQ28
DQ27
VDDQ
DQ26
DQ25
VSSQ
DQ24
VSS
ICA03
K8D1x16UTA
RA50
10K
RA82
CA34
104
RA51
47K
RA52
47K
RA59
RA53
1K
RA54
1K
CA35
104
RA55
RA56
RA57
1K
RA58
100K
A15
A14
A13
A12
A11
A10
A9
A8
A19
NC
WE
RESET
NC
WP/ACC
RY/BY
A18
A17
A7
A6
A5
A4
A3
A2
A1
A16
BYTE
Vss
DQ15/A-1
DQ7
DQ14
DQ6
DQ13
DQ5
DQ12
DQ4
Vcc
DQ11
DQ3
DQ10
DQ2
DQ9
DQ1
DQ8
DQ0
OE
Vss
CE
A0

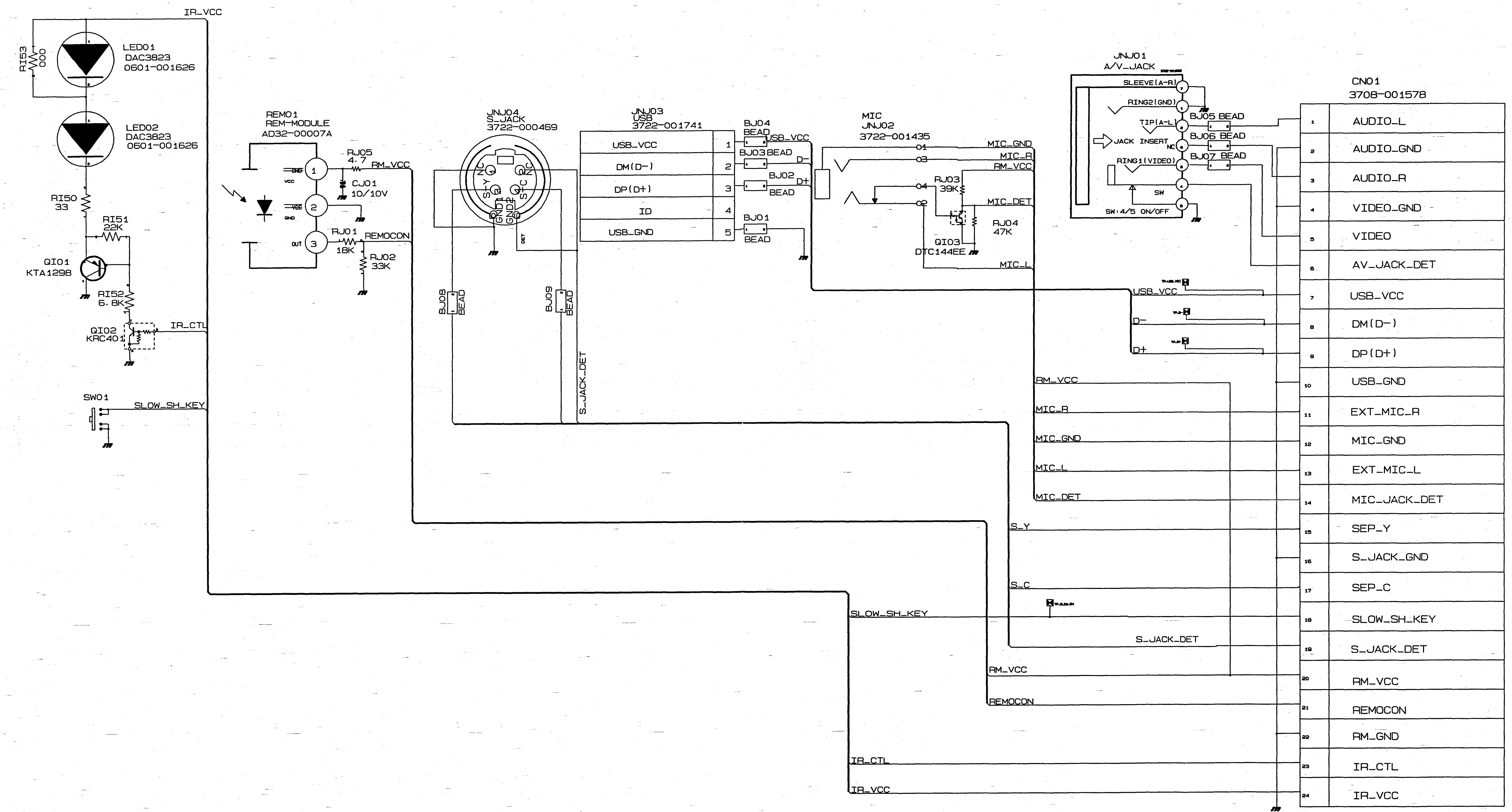
3-13 LCD


LCD3V
LED_CTR
BLCTL
BL5V
LCD5V
LCD15V
AVDD
15VF
OEH
Q1H
OEV
CPV
STV2
STV1
LL104 10uH
CL157 10/10V
CL158 104
RL142 1K
RL141 120
QL110 HN2A01FU LED DRIVE
RL140 2.2K
TPL202 BL HOT
LED DRIVE
LED01 LED_GRN
TPL204 BL COLD
GND
TO BL
QL108 CPH3209
QL109 CPH3209
CL148 223
RL136 2.7K/F
RL137 2.7K/F
TL103 B43TG-1005
CL150 12P/3KV
SWITCHING QL103 KRC401
LL115 10uH
LL109 150uH
CL161 104
CL160 22/10V
CL137 22/10V
CL138 104
LL304 10uH
CL104 104
CL316 10/10V
CL317 104
LL102 330uH
CL107 3.3/25V
CL102 104
LL307 330uH
LCD7.5V
CL331 10/16V
CL344 104
CL415 152
RL204 15K
CL416 2.2/16V
RL317 12K
LL105 10uH
CL318 10/10V
CL319 104
VCC
LCD_STB
LCD_SCLK
LCD_DATA
UD
LR
RL321 100
RL322 100
RL323 100
RL205 10K
LL201 10uH
CL231 104
CL232 10/10V
C_SYNC
Y
CL210 4.7/10V
CL208 104
AN2536FHQ
LOAD
SCLK
SDATA
DAC MONI/VNC
HMC
LCDEN
VDD
VCC1
GND
VD
CSYNC/HD
Y/G
B-Y/B
R-Y/R
VREF
OSDR
OSDG
OSDB
Ys
Psig DC
Psig
BFB
BOUT
FBTC
GFB
GOUT
RFB
ROUT
GND2
VCC2
STH
CPH1
CPH2
CPH3
VCC3
Vco
PHOET
Vss
STV
CPV
OEV
OEH
AW
CL417 2.2/16V
CL418 2.2/16V
VR
VG
VB
COM
CDC
STH1
STH2
B-Y
R-Y
CL209 104
CL211 104
CL419 10/10V
RL310 8.2K
CL421 2.2/16V
CL422 104
OSD_R
OSD_G
OSD_B
OSD_BLK
RL306 1K
RL307 1K
RL308 1K
RL309 1K
RL430 3.3K
RL431 3.3K
RL432 3.3K
RL201 10K
RL202 47K
RL203 47K
TPL02 WPRT
LCD_DATA
LCD_SCL
ICL202 KS24C020STF EEPROM
CNL302 CONNECTOR
26 C_SYNC
25 BL_5V
24 BL_5V
23 GND
22 GND
21 LCD_BL_ON
20 LCD_3V
19 LCD_7.5V
18 R-Y
17 LCD_Y
16 B-Y
15 OSD_R
14 OSD_G
13 OSD_B
12 GND
11 LCD_STB
10 LCD/CVF_DATA
9 LCD/CVF_CLK
8 LCD_CTL
7 GND
6 OSD_BLK
5 LCD5V
4 LCD15V
3 LCD-15V
2 LCD_MIRROR
1 GND
BLK
LCD-15V
CDC
RL305 0
VCOM
TP. VCOM TP201
RL301 18K
CL302 10/10V
RL304 1K
CL303 10/10V
RL302 1K
RL303 5.6K
CL332 3.3/16V
CL412 105
ICL301 7SS58 COMPARATOR
VR TP205
VG TP206
VG TP207
LL401 10uH
-15V
CL111 104
CL110 3.3/25V
CL101 104
VCC
STV1 RL311 100
STV2 RL312 100
OEH RL320 000
Q1H RL319 000
STH2 RL313 100
RL314 100
CL401 10/20V
QL306 2SA1774-Q
RL428 100
DL303 KDS160
RL315 10K
RL316 15K
CNL301 52437-2891
1 NC
2 VGH
3 VCC
4 VSS
5 VEE
6 VGL
7 DIO1
8 DIO2
9 U/D
10 CPV
11 XOE
12 VCOM
13 VCOM
14 R/L
15 INH
16 Q2H
17 STH2
18 CPH3
19 CPH2
20 CPH1
21 VDD
22 VSS
23 VR
24 VG
25 VB
26 AVDD
27 AVSS
28 STH1
TO LCD

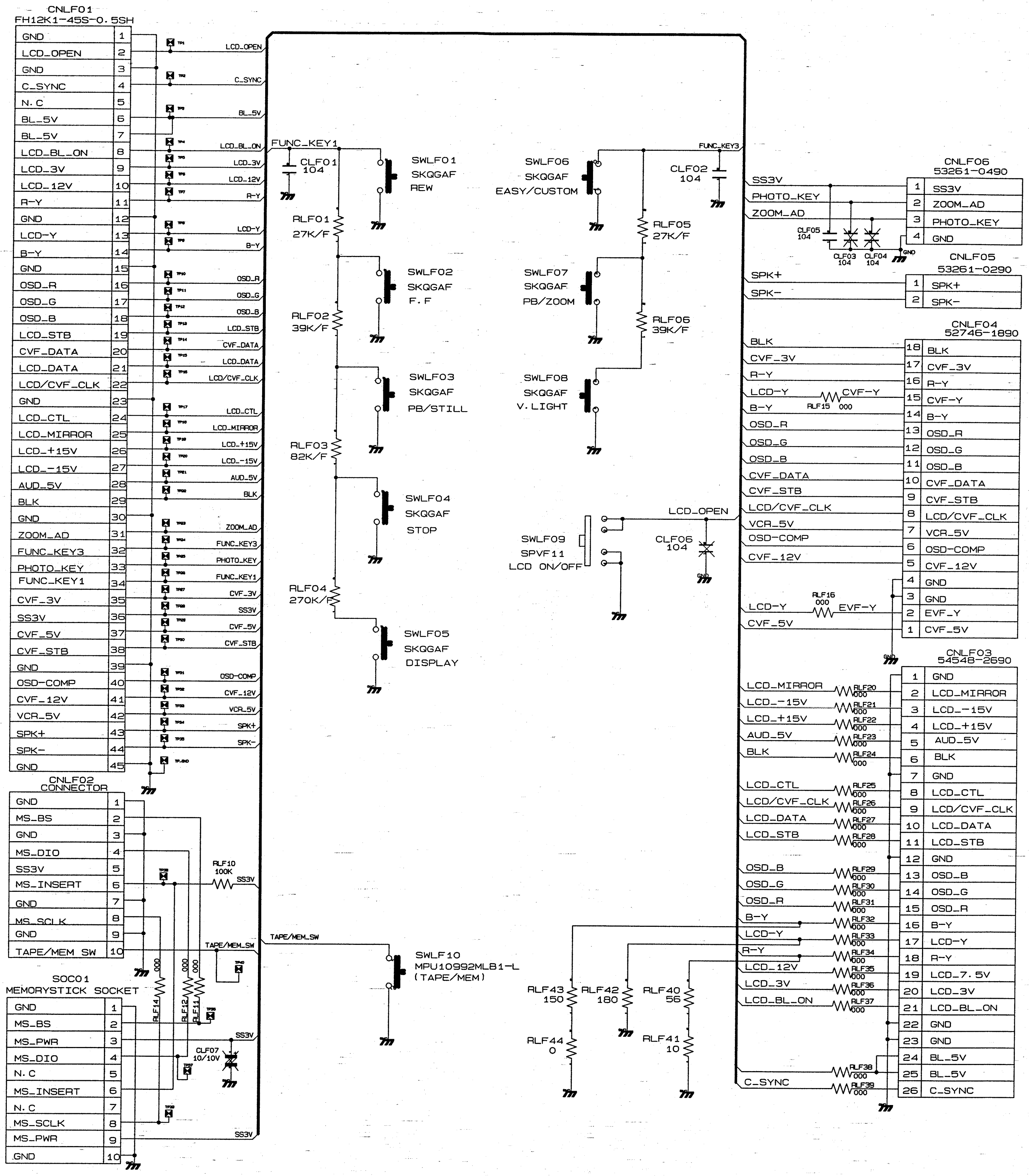
3-14 EVF


LE01
33UH
CE01
10/10V
CE02
104
RE01
68K/F
RE05
33K/F
B-LEVEL
RE06
39K/F
GAMMA
RE02
6.8K/F
CE03
104
CE04
102
RE30
100
LED01
NSCW100-a0S
RE22
220
RE07
1K
CNE02
52559-2090
1 TV
2 THL
3 TCL
4 VIDL
5 RENO
6 RENE
7 HCK
8 HPL
9 V REF
10 VSS
11 VDD
12 VEE
13 VCOM
14 HLTOR
15 HODL
16 VPL
17 VCK
18 VIDH
19 PDR
20 THH
TO LCD BLOCK
DE03
RB411D-T146
Vbat/2
CE17
104
9.0V
2.0V
5.9V
CE16
10/10V
CE18
104
CE19
104
RE31
100
DE04
KDZ2.7V
DE02
KDS160
QE02
HN1B04FU
RE25
47K
RE29
12K
RE24
4.7K
RE26
3.9K
CE05
10/16V
CNE01
54550-0690
VCR_5V 6
OSD 5
EVF_12V 4
GND 3
EVF_Y 2
EVF_5V 1
FROM FUNCTION BLOCK
LE03
33UH
CE08
104
CE20
10/10V
CE07
10/10V
ICE01
MCVVQ111FB
36 Gamma Bias
35 OK
34 Brightness
33 VBG
32 BL
31 BL_GND
30 MVDD
29 VIDHC
28 VIDLC
27 VIDL
26 RENO
25 RENE
37 Horizontal Skipping
38 SStart
39 SMComp
40 VDDH
41 SMGND
42 SMOut
43 VBat
44 32H PLLVCC
45 H_Sync
46 V_Sync
47 VH_IO_Sel
48 Ref_Gnd
1 SLEEP
2 HODL_Sel
3 OSD_In
4 AGND
5 Video_Input
6 Clamp
7 PLL_Filter
8 Gain
9 SFltr
10 525/625
11 DGND
12 AGND
HCK 24
HPL 23
Vref 22
VSS 21
VDD 20
VEE 19
vcom 18
HODL 17
VPL 16
VCK 15
VIDH 14
PDR 13
RE16
10K
CE11
104
RE21
12K
CE10
104
VRE02
10K
GAIN
RE17
3.3K
CE15
1/16V
CE12
104
CE13
473
CE14
1/16V
RE19
10K
PAL
RE20
10K
NTSC
GND

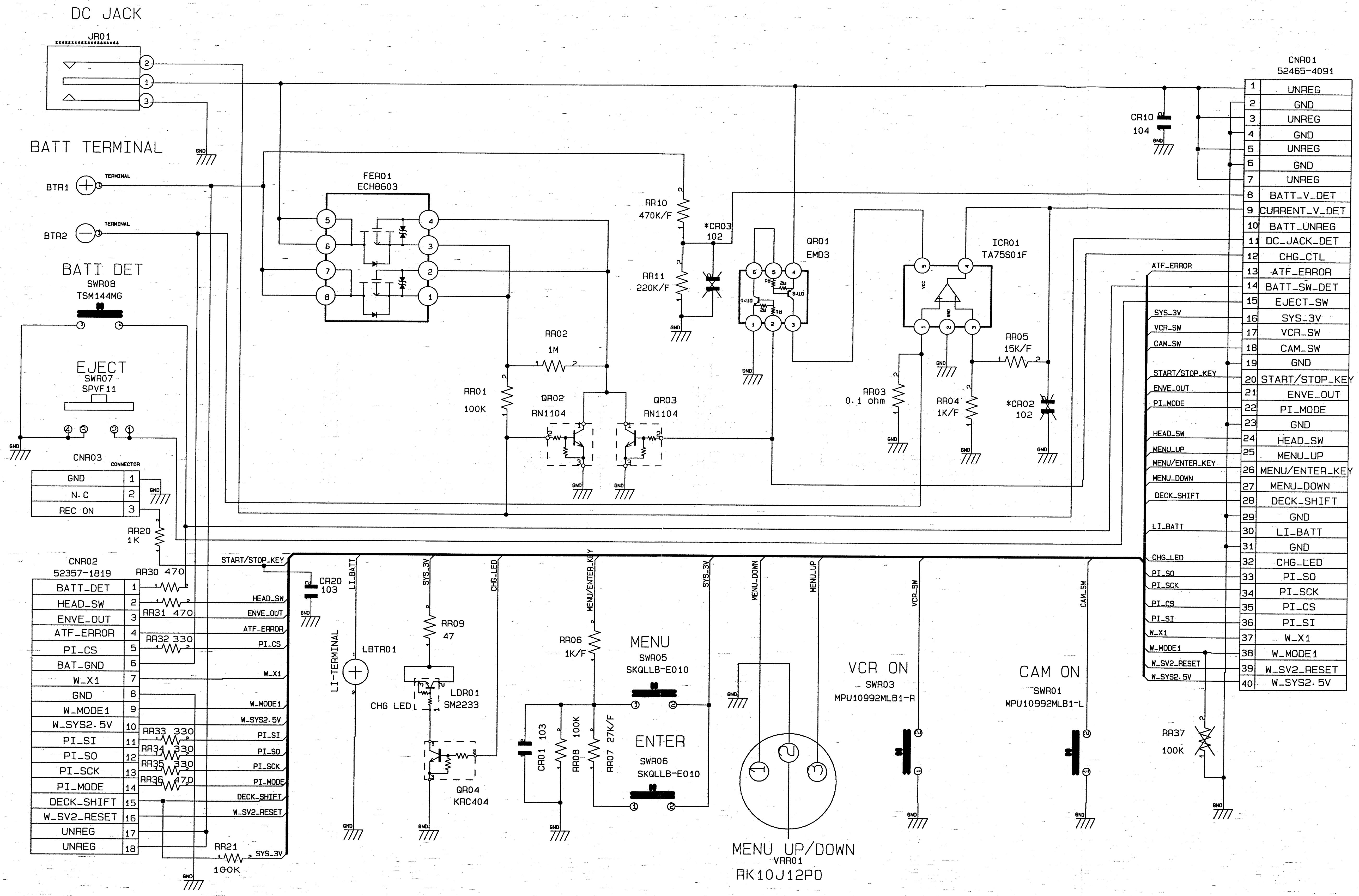
3-15 Front


IR_VCC
RI53
000
LED01
DAC3823
0601-001626
LED02
DAC3823
0601-001626
RI50
33
RI51
22K
QI01
KTA1298
RI52
6.8K
QI02
KRC401
IR_CTL
SW01
SLOW_SH_KEY
REM01
REM-MODULE
AD32-00007A
RJ05
4.7
RM_VCC
CJ01
10/10V
RJ01
18K
REMOCON
RJ02
33K
JNJ04
S_JACK
3722-000469
BJ08
BEAD
BJ09
BEAD
S_JACK_DET
JNJ03
USB
3722-001741
USB_VCC
DM(D-)
DP(D+)
ID
USB_GND
BJ04
BEAD
BJ03 BEAD
BJ02
BEAD
BJ01
BEAD
D-
D+
MIC
JNJ02
3722-001435
MIC_GND
MIC_R
RM_VCC
RJ03
39K
MIC_DET
RJ04
47K
QI03
DTC144EE
MIC_L
JNJ01
A/V_JACK
SLEEVE(A-R)
RING2(GND)
TIP(A-L)
JACK INSERT
RING1(VIDEO)
SW
SW:4/5 ON/OFF
BJ05 BEAD
BJ06 BEAD
BJ07 BEAD
CN01
3708-001578
1 AUDIO_L
2 AUDIO_GND
3 AUDIO_R
4 VIDEO_GND
5 VIDEO
6 AV_JACK_DET
7 USB_VCC
8 DM(D-)
9 DP(D+)
10 USB_GND
11 EXT_MIC_R
12 MIC_GND
13 EXT_MIC_L
14 MIC_JACK_DET
15 SEP_Y
16 S_JACK_GND
17 SEP_C
18 SLOW_SH_KEY
19 S_JACK_DET
20 RM_VCC
21 REMOCON
22 RM_GND
23 IR_CTL
24 IR_VCC
S_Y
S_C
MIC_DET

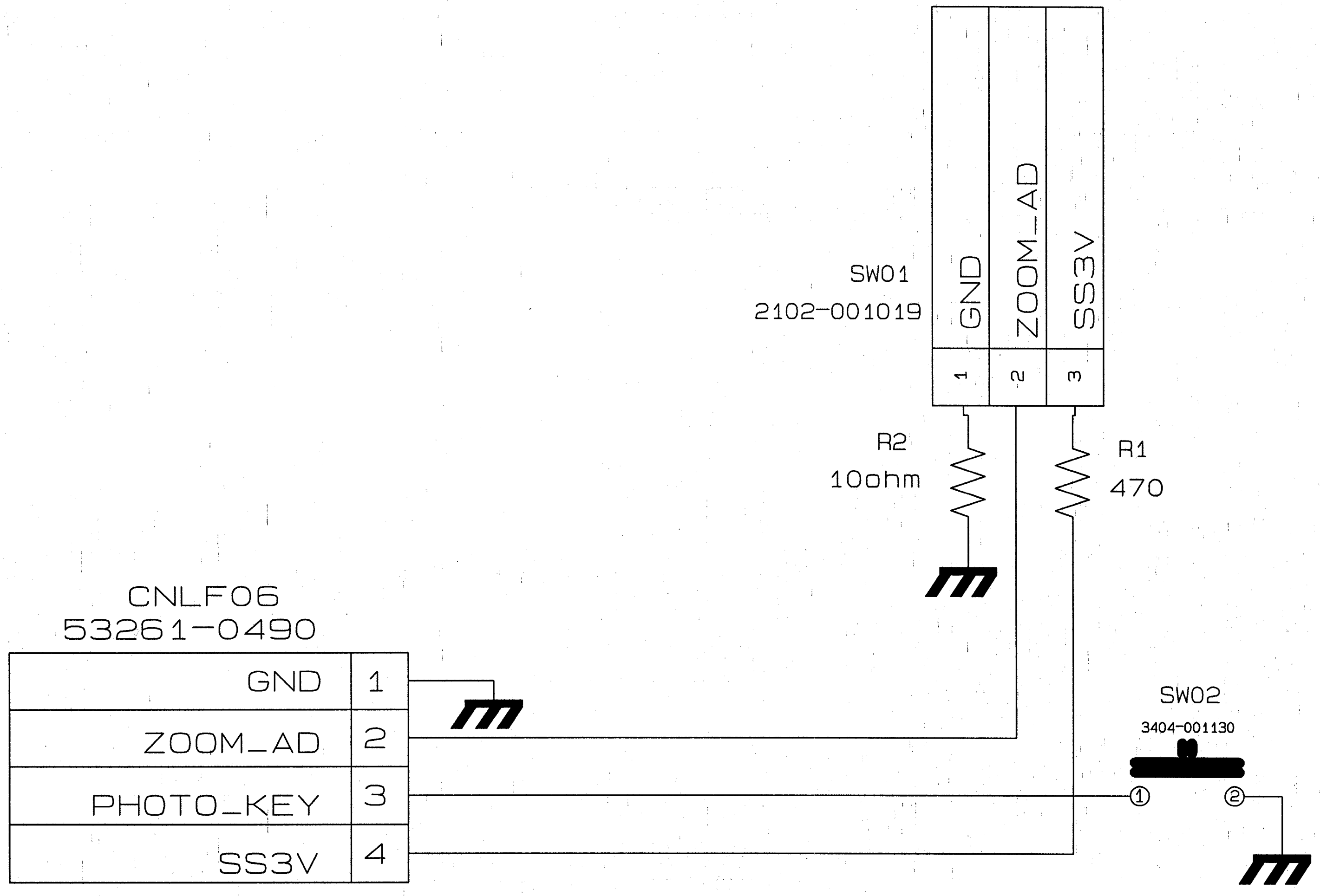
3-16 Left


CNLF01
FH12K1-45S-0.5SH
GND 1
LCD_OPEN 2
GND 3
C_SYNC 4
N.C 5
BL_5V 6
BL_5V 7
LCD_BL_ON 8
LCD_3V 9
LCD_12V 10
R-Y 11
GND 12
LCD-Y 13
B-Y 14
GND 15
OSD_R 16
OSD_G 17
OSD_B 18
LCD_STB 19
CVF_DATA 20
LCD_DATA 21
LCD/CVF_CLK 22
GND 23
LCD_CTL 24
LCD_MIRROR 25
LCD_+15V 26
LCD_-15V 27
AUD_5V 28
BLK 29
GND 30
ZOOM_AD 31
FUNC_KEY3 32
PHOTO_KEY 33
FUNC_KEY1 34
CVF_3V 35
SS3V 36
CVF_5V 37
CVF_STB 38
GND 39
OSD-COMP 40
CVF_12V 41
VCR_5V 42
SPK+ 43
SPK- 44
GND 45
CNLF02
CONNECTOR
GND 1
MS_BS 2
GND 3
MS_DIO 4
SS3V 5
MS_INSERT 6
GND 7
MS_SCLK 8
GND 9
TAPE/MEM SW 10
SOC01
MEMORYSTICK SOCKET
GND 1
MS_BS 2
MS_PWR 3
MS_DIO 4
N.C 5
MS_INSERT 6
N.C 7
MS_SCLK 8
MS_PWR 9
GND 10
RLF10
100K
SS3V
TAPE/MEM_SW
RLF14
RLF12
RLF11
CLF07
10/10V
FUNC_KEY1
CLF01
104
RLF01
27K/F
RLF02
39K/F
RLF03
82K/F
RLF04
270K/F
SWLF01
SKQGAF
REW
SWLF02
SKQGAF
F.F
SWLF03
SKQGAF
PB/STILL
SWLF04
SKQGAF
STOP
SWLF05
SKQGAF
DISPLAY
SWLF06
SKQGAF
EASY/CUSTOM
SWLF07
SKQGAF
PB/ZOOM
SWLF08
SKQGAF
V.LIGHT
SWLF09
SPVF11
LCD ON/OFF
FUNC_KEY3
CLF02
104
RLF05
27K/F
RLF06
39K/F
LCD_OPEN
CLF06
104
SWLF10
MPU10992MLB1-L
(TAPE/MEM)
RLF43
150
RLF42
180
RLF40
56
RLF44
0
RLF41
10
SS3V
PHOTO_KEY
ZOOM_AD
CLF05
104
CLF03
104
CLF04
104
CNLF06
53261-0490
1 SS3V
2 ZOOM_AD
3 PHOTO_KEY
4 GND
SPK+
SPK-
CNLF05
53261-0290
1 SPK+
2 SPK-
CNLF04
52746-1890
18 BLK
17 CVF_3V
16 R-Y
15 CVF-Y
14 B-Y
13 OSD_R
12 OSD_G
11 OSD_B
10 CVF_DATA
9 CVF_STB
8 LCD/CVF_CLK
7 VCR_5V
6 OSD-COMP
5 CVF_12V
4 GND
3 GND
2 EVF_Y
1 CVF_5V
BLK
CVF_3V
R-Y
LCD-Y
CVF-Y
RLF15 000
B-Y
OSD_R
OSD_G
OSD_B
CVF_DATA
CVF_STB
LCD/CVF_CLK
VCR_5V
OSD-COMP
CVF_12V
LCD-Y
RLF16 000
EVF_Y
CVF_5V
CNLF03
54548-2690
1 GND
2 LCD_MIRROR
3 LCD_-15V
4 LCD_+15V
5 AUD_5V
6 BLK
7 GND
8 LCD_CTL
9 LCD/CVF_CLK
10 LCD_DATA
11 LCD_STB
12 GND
13 OSD_B
14 OSD_G
15 OSD_R
16 B-Y
17 LCD-Y
18 R-Y
19 LCD_7.5V
20 LCD_3V
21 LCD_BL_ON
22 GND
23 GND
24 BL_5V
25 BL_5V
26 C_SYNC
LCD_MIRROR
LCD_-15V
LCD_+15V
AUD_5V
BLK
LCD_CTL
LCD/CVF_CLK
LCD_DATA
LCD_STB
OSD_B
OSD_G
OSD_R
B-Y
LCD-Y
R-Y
LCD_12V
LCD_3V
LCD_BL_ON
C_SYNC
RLF20 000
RLF21 000
RLF22 000
RLF23 000
RLF24 000
RLF25 000
RLF26 000
RLF27 000
RLF28 000
RLF29 000
RLF30 000
RLF31 000
RLF32 000
RLF33 000
RLF34 000
RLF35 000
RLF36 000
RLF37 000
RLF38 000
RLF39 000

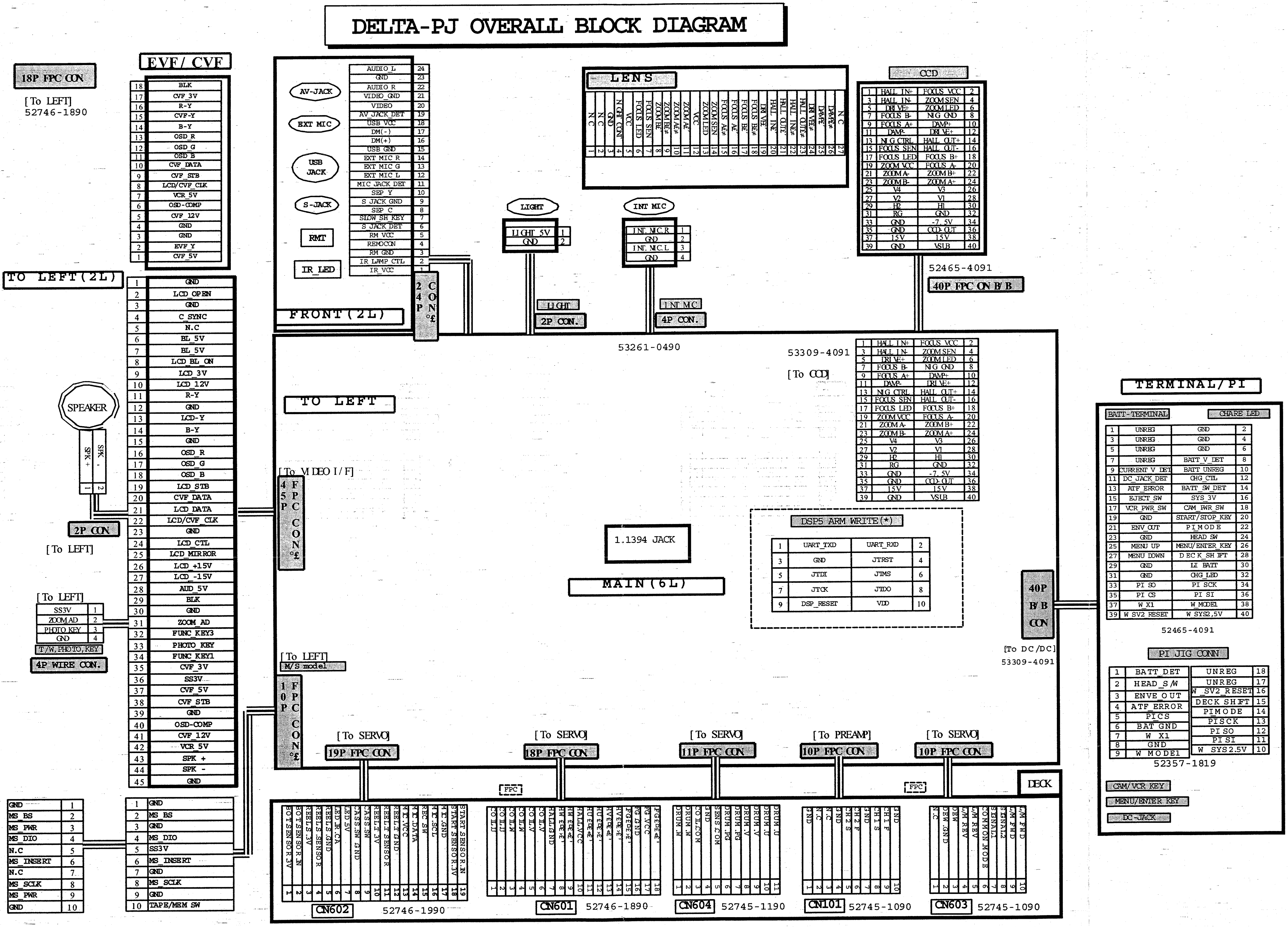
3-17 Rear


DC JACK
JR01
BATT TERMINAL
BTR1
TERMINAL
BTR2
TERMINAL
BATT DET
SWR08
TSM144MG
EJECT
SWR07
SPVF11
CNR03
CONNECTOR
GND 1
N.C 2
REC ON 3
RR20
1K
CNR02
52357-1819
BATT_DET 1
HEAD_SW 2
ENVE_OUT 3
ATF_ERROR 4
PI_CS 5
BAT_GND 6
W_X1 7
GND 8
W_MODE1 9
W_SYS2.5V 10
PI_SI 11
PI_SO 12
PI_SCK 13
PI_MODE 14
DECK_SHIFT 15
W_SV2_RESET 16
UNREG 17
UNREG 18
RR30 470
RR31 470
RR32 330
RR33 330
RR34 330
RR35 330
RR36 470
RR21
100K
START/STOP_KEY
HEAD_SW
ENVE_OUT
ATF_ERROR
PI_CS
W_X1
W_MODE1
W_SYS2.5V
PI_SI
PI_SO
PI_SCK
PI_MODE
DECK_SHIFT
W_SV2_RESET
SYS_3V
CR20
103
LI_BATT
LI-TERMINAL
LBTR01
SYS_3V
RR09
47
CHG LED
LDR01
SM2233
QR04
KRC404
CHG_LED
FER01
ECH8603
RR01
100K
RR02
1M
QR02
RN1104
QR03
RN1104
RR10
470K/F
RR11
220K/F
*CR03
102
QR01
EMD3
ICR01
TA75S01F
RR03
0.1 ohm
RR04
1K/F
RR05
15K/F
*CR02
102
MENU/ENTER_KEY
RR06
1K/F
MENU
SWR05
SKQLLB-E010
ENTER
SWR06
SKQLLB-E010
CR01 103
RR08 100K
RR07 27K/F
SYS_3V
MENU_DOWN
MENU_UP
MENU UP/DOWN
VRR01
RK10J12P0
VCR_SW
VCR ON
SWR03
MPU10992MLB1-R
CAM_SW
CAM ON
SWR01
MPU10992MLB1-L
RR37
100K
CR10
104
GND
CNR01
52465-4091
1 UNREG
2 GND
3 UNREG
4 GND
5 UNREG
6 GND
7 UNREG
8 BATT_V_DET
9 CURRENT_V_DET
10 BATT_UNREG
11 DC_JACK_DET
12 CHG_CTL
13 ATF_ERROR
14 BATT_SW_DET
15 EJECT_SW
16 SYS_3V
17 VCR_SW
18 CAM_SW
19 GND
20 START/STOP_KEY
21 ENVE_OUT
22 PI_MODE
23 GND
24 HEAD_SW
25 MENU_UP
26 MENU/ENTER_KEY
27 MENU_DOWN
28 DECK_SHIFT
29 GND
30 LI_BATT
31 GND
32 CHG_LED
33 PI_SO
34 PI_SCK
35 PI_CS
36 PI_SI
37 W_X1
38 W_MODE1
39 W_SV2_RESET
40 W_SYS2.5V
ATF_ERROR
SYS_3V
VCR_SW
CAM_SW
START/STOP_KEY
ENVE_OUT
PI_MODE
HEAD_SW
MENU_UP
MENU/ENTER_KEY
MENU_DOWN
DECK_SHIFT
LI_BATT
CHG_LED
PI_SO
PI_SCK
PI_CS
PI_SI
W_X1
W_MODE1
W_SV2_RESET
W_SYS2.5V

3-18 Top


SW01
2102-001019
1 GND
2 ZOOM_AD
3 SS3V
R2
10ohm
R1
470
CNLF06
53261-0490
GND 1
ZOOM_AD 2
PHOTO_KEY 3
SS3V 4
SW02
3404-001130
①
②

4. Wiring Diagram


DELTA-PJ OVERALL BLOCK DIAGRAM
18P FPC CON
[To LEFT]
52746-1890
EVF/ CVF
TO LEFT(2L)
SPEAKER
SPK +
SPK -
2P CON
[To LEFT]
[To LEFT]
SS3V
ZOOM AD
PHOTO KEY
GND
T/W, PHOTO, KEY
4P WIRE CON.
AV-JACK
EXT MIC
USB JACK
S-JACK
RMT
IR LED
FRONT(2L)
24P CON
LIGHT
LIGHT 5V
GND
LIGHT
2P CON.
INT MIC
INT MIC R
INT MIC L
INT MIC
4P CON.
LENS
CCD
52465-4091
40P FPC CN B/B
53261-0490
53309-4091
[To CCD]
TO LEFT
[To VIDEO I/F]
45P FPC CON
1.1394 JACK
DSP5 ARM WRITE(*)
MAIN(6L)
[To LEFT]
M/S model
10P FPC CON
[To SERVO]
19P FPC CON
[To SERVO]
18P FPC CON
[To SERVO]
11P FPC CON
[To PREAMP]
10P FPC CON
[To SERVO]
10P FPC CON
40P B/B CON
[To DC/DC]
53309-4091
TERMINAL/PI
BATT-TERMINAL
CHARE LED
52465-4091
PI JIG CONN
52357-1819
CAM/VCR KEY
MENU/ENTER KEY
DC-JACK
DECK
FPC
CN602
52746-1990
CN601
52746-1890
CN604
52745-1190
CN101
52745-1090
CN603
52745-1090

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AD82-00013A

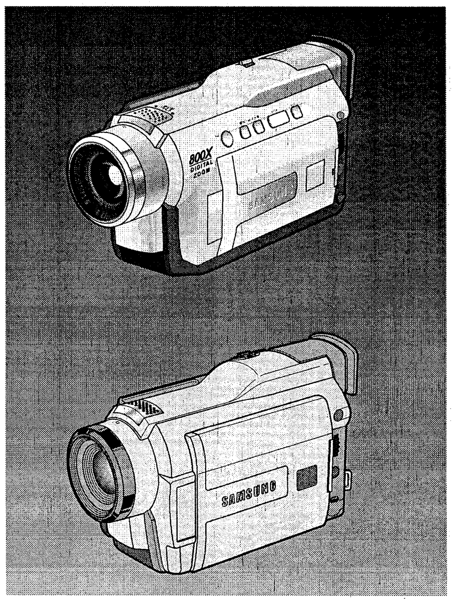
DIGITAL VIDEO CAMCORDER

Chassis : Delta
SCD20/SCD21/SCD22/SCD23/SCD24
SCD27/SCD29
VP-D20/D21/D23/D24/D26
VP-D20i/D21i/D23i/D24i/D26i

ADJUST Manual

- This Manual is for only Alignment and Adjustment method of "Delta" Chassis.
- File with the Service Manual.

DIGITAL VIDEO CAMCORDER



CONTENTS

1. VCR Adjustment
2. Camera Adjustment
3. LCD Adjustment
4. Deck Adjustment

1. VCR Adjustment

1-1 VCR Adjustment Preparation

1) How to get into the VCR adjust mode

STEP 1

❶ Connect the power source.
❷ Set the power switch to "TAPE" position.

STEP 2

❶ Press and hold the "STOP" and "EASY" buttons on the video camera at the same time for more than 5 seconds.
❷ When monitor OSD appears as shown Fig. 1-2, the adjustment mode has been activated successfully.
❸ Move the "MENU Dial" to highlight VCR ADJ and push the "ENTER". (See Fig. 1-3)
❹ When changing the adjustment item, please press the "EASY" and "DISPLAY" buttons on the video camera.
❺ You can change the adjustment value to move the "MENU Dial" Up or Down.
❻ After setting adjustment value, please push the "ENTER" to confirm Data.

STEP 3

If you want to finish the adjustment mode, you have to do Power Reset.
The Power Reset means that you pull out the power source and pull in it again.

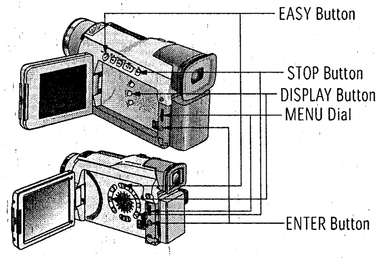

EASY Button
STOP Button
DISPLAY Button
MENU Dial
ENTER Button

Fig. 1-1

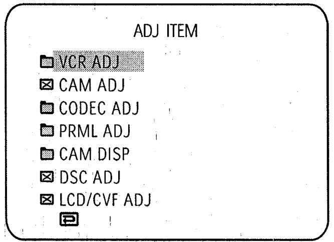

ADJ ITEM
VCR ADJ
☒ CAM ADJ
CODEC ADJ
PRML ADJ
CAM DISP
☒ DSC ADJ
☒ LCD/CVF ADJ

Fig. 1-2

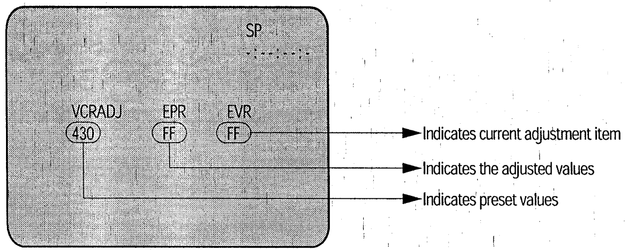

SP
VCRADJ
430
EPR
FF
EVR
FF
Indicates current adjustment item
Indicates the adjusted values
Indicates preset values

Fig. 1-3

---

2) Function of each buttons on the SET Key

<Table 1-1>

Buttons	Description
ENTER push (Confirm)	Stores changed value in the adjustment and auto adjustment mode.
MENU Dial down (Data Down)	Changes data in the adjustment state.
MENU Dial up (Data Up)	
EASY (Mode Up)	Changes mode.
DISPLAY (Mode Down)	

1-2 VCR Adjustment

<Table 1-2>

Model(Address)	Name	Value	Description
437	SWP Position	80	Head Switching Position Adjust

1) How to adjust Head Switching Position

❶ Get into VCR ADJUST mode.
❷ Move to the VCR ADJUST address "437".
❸ Play standard tape, and "Head Switching Position" will be adjusted automatically.

2. Camera Adjustment

Note : How to adjust the camera system.

1) **EEPROM stores confirmed adjustment value of each adjustment step.**
2) **DSP (Digital Signal Process : ICA01-Camera Main PCB) digitalizes the camera signal.**
3) **When changing IC705-Main PCB of EEPROM, readjust Main PCB.**
   While changing LCD PCB and CVF PCB- always readjust each part.
   Since EEPROM stores confirmed adjustment value of each adjustment step, readjusting must be performed in order to store the changed data.
4) **Adjust the following items after changing LENS Ass'y.**
   - ❶ **Lens Zoom Track**
   - ❷ **Auto HALL**
   - ❸ **Auto IRIS**
5) **Adjust the following items after changing EEPROM and Main PCB.**
   - ❶ **Lens Zoom Track**
   - ❷ **Zoom VR Center**
   - ❸ **Auto HALL**
   - ❹ **Auto IRIS**
   - ❺ **Auto White Balance (indoor)**
   - ❻ **Auto White Balance (outdoor)**

2-1 Adjustment Preparation

1) Measuring Instrument

❶ DC power supply
❷ Oscilloscope
❸ NTSC Vectorscope, PAL vectorscope
❹ NTSC wave form monitor, PAL wave form monitor
❺ NTSC TV or Monitor, PAL TV or Monitor
❻ Color bar chart
Gray scale chart

2) Camera PCB configuration

❶ Main PCB
❷ CCD PCB
❸ LCD PCB
❹ CVF PCB

3) Before you start

❶ Use the buttons on the SET key when adjusting camera.
❷ Press the push the "ENTER" when storing confirmed adjustment value of each adjustment step in EEPROM.
❸ The OSD shows "OK" after finishing each adjustment step.
❹ To clear the adjustment mode, pull out the power source.

4) Function of each buttons on the SET Key

<Table 2-1>

Buttons	Description
ENTER push (Confirm)	Stores changed value in the adjustment and auto adjustment mode.
MENU Dial down (Data Down)	Changes data in the adjustment state.
MENU Dial up (Data Up)	
EASY (Mode Up)	Changes mode.
DISPLAY (Mode Down)	

5) How to set up the camera adjustment mode

STEP 1

❶ Connect the power source (battery/DC cable).
❷ Set the power switch to "CAMERA" position.
❸ The OSD appears.

STEP 2

❶ Press and hold the "STOP" and "EASY" buttons on the video camera at the same time for more than 5 seconds.
❷ When monitor OSD appears as shown Fig. 2-2, the adjustment mode has been activated successfully.
❸ Move the "MENU Dial" to highlight CAM ADJ and push the "ENTERl".
❹ When changing the adjustment item, please press the "EASY" button on the Camera.
❺ You can change the adjustment value to move the "MENU Dial" Up or Down.
❻ After setting adjustment value, please push the "ENTER" to confirm Data.

STEP 3

Monitor OSD shows " CAMERA OCD EPR FF EVR FF ".
Then camera adjustment mode has been activated successfully.

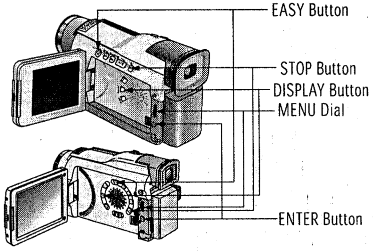


Fig. 2-1

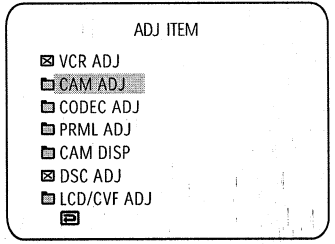

ADJ ITEM
☒ VCR ADJ
🗀 CAM ADJ
🗀 CODEC ADJ
🗀 PRML ADJ
🗀 CAM DISP
☒ DSC ADJ
🗀 LCD/CVF ADJ
↩

Fig. 2-2

2-2 Camera Adjustment

Note : "XX XX" indicate the previous preset value and adjusted value.
Press the "ENTER" (Confirm) to store the adjusted value.

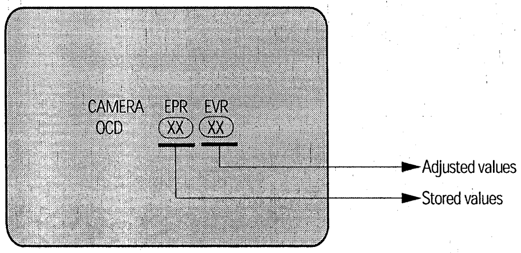


Fig. 2-3

1) EEPROM Data Initialize

Caution : This adjustment must do following items changing new EEPROM (IC705) or Main PCB.

❶ Press the "EASY"(Mode Up)/"DISPLAY"(Mode Down) buttons so that OSD shows "ODF XX XX".
❷ Using "MENU Dial"(Data Up/Down) so that display data of EVR is "A0"
❸ Press the "ENTER" (Confirm).
❹ The OSD shows "OK" after huithing the initalize.

2) Lens Zoom Track

Caution : For whole zoom range, it shall be in focus.
The location of a focus lens is moving depending on the location of Zoom Lens.
During adjusting, micom measures the focus location from a near distance to a long.

❶ Camera is set to E-E mode.
❷ Focus chart photo.
❸ Ensure that camera is left an about 3m distance from a focus chart and the focus of lens is placed vertically.
Attach a focus chart to white or gray wall of a flat surface.
❹ Connect a video output terminal to a TV.
❺ Press the "EASY"(Mode Up)/"DISPLAY"(Mode Down) buttons so that OSD shows "ODE XX XX".
❻ Press the "ENTER" (Confirm).
Never impact on the lens when adjusting zoom and focus Lens.
The OSD shows "OK" after finishing the adjustment.

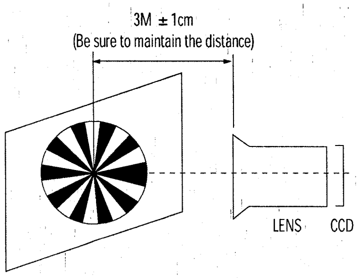


Fig. 2-4

3) Zoom VR Center

❶ Connect a video output terminal to a TV.
❷ Press the "EASY"(Mode Up)/"DISPLAY"(Mode Down) buttons so that OSD shows "OD6 XX XX".
❸ Press the "ENTER" (Confirm).
❹ Then Micom finds out Zoom VR center position.
Store Zoom VR center value in OB7.

4) Auto HALL

❶ Connect a video output terminal to a TV.
❷ Press the "EASY"(Mode Up)/"DISPLAY"(Mode Down) buttons so that OSD shows "OCD XX XX".
❸ Press the "ENTER" (Confirm).
❹ Then micom finds out max. Hall value with an iris opened and min. Hall value with an iris closed.
Store max. and min. value of Hall in OAD and OAC respectively.
❺ The OSD shows "OK" after finishing the adjustment.

5) Auto IRIS Level

❶ Connect a video output terminal to a wave form monitor and a TV.
❷ Press the "EASY"(Mode Up)/"DISPLAY"(Mode Down) buttons so that OSD shows "OCE XX XX".
❸ Press the "ENTER" (Confirm).
❹ Then micom finds out max. Hall value with an iris opened and min.
Hall value with an iris closed. Store max. and min. value of in OBC, OBD and OBB respectively.
❺ The OSD shows "OK" after finishing the adjustment.

6) Auto White Balance (indoor)

❶ Camera mode & 3100° K/5100° K gray scale chart.
❷ Connect a video output terminal to a vectorscope and a TV.
❸ Press the "EASY"(Mode Up)/"DISPLAY"(Mode Down) buttons so that OSD shows "OD4 XX XX".
❹ Ensure that camera picks up image 40μs on 3100°K gray scale chart precisely and the illumination is 1500~2000 Lux.
❺ Press the "ENTER" (Confirm) to ensure that white spot on a vectorscope is moving in the middle of screen.
❻ The OSD shows "OK" after finishing the adjustment.

7) Auto White Balance (outdoor)

❶ Camera mode & 3100° K/5100° K gray scale chart.
❷ Connect a video output terminal to a vectorscope and a TV.
❸ Press the "EASY"(Mode Up)/"DISPLAY"(Mode Down) buttons so that OSD shows "OD5 XX XX".
❹ Ensure that camera picks up image 40 μs on 5100 gray scale chart (3100 gray scale chart + C16 filter) precisely and the illumination is 1500~2000 Lux.
❺ Press the "ENTER" (Confirm) to ensure that white spot on a vectorscope is moving in the middle of screen.
❻ The OSD shows "OK" after finishing the adjustment.

3. LCD Adjustment

Note : For LCD adjustment, use the buttons on the video camera and the SET key.
After each adjustment step is completed, OSD shows "OK".
EEPROM(ICL202) stores confirmed adjustment value of each adjustment step.
After finishing the adjustment, turn power off.

3-1 How to get into the LCD adjust mode

STEP 1

❶ Connect the power source (battery/DC cable).
❷ Set the power switch to "REC" position.
❸ Set the Lens to CAMCORDER.
❹ Camera screen and OSD appears.
❺ Open housing of the video camera and remove tape.
❻ Open the LCD.

STEP 2

❶ Press and hold the "STOP" and "EASY" buttons on the video camera at the same time for more than 5 seconds.
❷ When monitor OSD appears as shown Fig. 3-2, the adjustment mode has been activated successfully.
❸ Move the "MENU Dial" to highlight LCD/CVF ADJ and push the "ENTER".
❹ When changing the adjustment item, please press the "EASY"/"DISPLAY" buttons on the camera.
❺ You can change the adjustment value to move the "MENU Dial" Up or Down.
❻ After setting adjustment value, please push the "ENTER" to confirm Data.

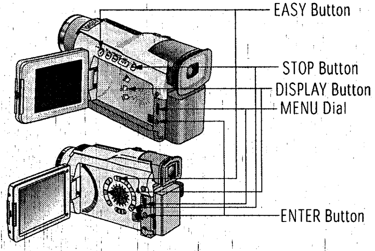


Fig. 3-1

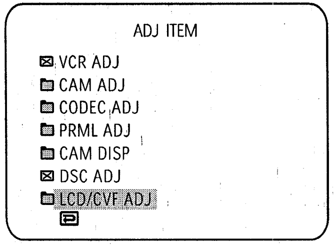


Fig. 3-2

3-2 Function of each buttons on the SET Key

<Table 3-1>

Buttons	Description
ENTER push (Confirm)	Stores changed value in the adjustment and auto adjustment mode.
EASY (Mode Up)	Shift adjustment address to left.
DISPLAY (Mode Down)	Shift adjustment address to right.
MENU Dial up (Data Up)	Up value.
MENU Dial down (Data Down)	Down value.

Note : In service adjustment mode, button names are different from those in customer function control mode.

3-3 Adjust Mode

<Table 3-2>

Mode	NTSC		PAL	
	TRANSMISSION	TRANS-Reflective	TRANSMISSION	TRANS-Reflective
00	55	55	55	55
01	80	80	80	80
02	A0	A0	A0	A0
03	4F	4F	4F	4F
04	80	80	80	80
05	C6	C6	C6	C6
06	B5	B5	B5	B5
07	80	80	80	80
08	80	80	80	80
09	70	70	70	70
0A	95	95	95	95
0B	80	80	80	80
0C	76	76	76	76
0D	60	60	60	60
0E	D0	D0	D0	D0
0F	15	15	15	15
10	52	52	52	52
11	CD	CD	CD	CD
12	C0	C0	80	80
13	80	80	93	93
14	00	00	00	00
15	00	00	00	00

4. Deck Adjustment

4-1 Operation Without Housing Assembly

1) Remove the Housing Ass'y from the recorder unit.
2) Connect the mechanical chassis to the recorder circuit to supply voltage.
3) Set to Unload mode.
4) Press the S/W Push(Keep ON status)to start loading, and push the PLAY Key.
(Cover the Top/End sensor with black tape, because they do not operate.)

Note : For the removal of the Housing Ass'y.

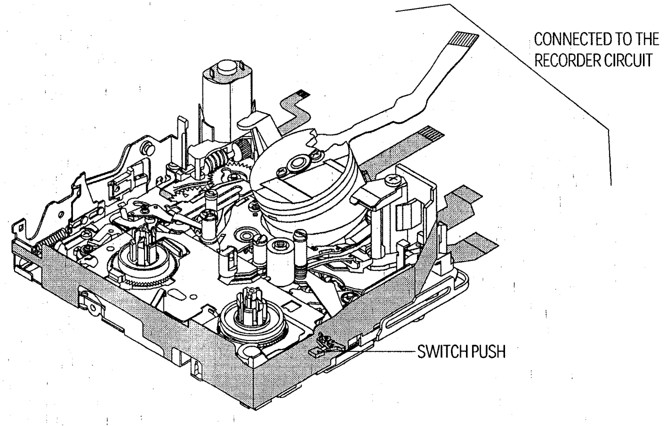


Fig. 4-1

4-2 Setting Mechanical Mode (Without Recorder Circuit)

1) Set the power-supply output to approx.3V.
2) Choose the polarity (depending on whether loading or unloading).
3) Supply the voltage to the Motor Loading, and set to the desired mode.

<Table 4-1>

A	B	Movement of chassis
+	-	Loading
-	+	Unloading

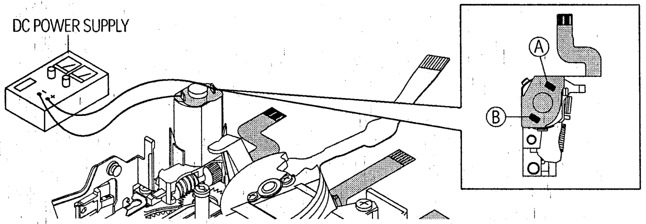


Fig. 4-2

4-3 Maintenance

Carry out the following periodic maintenance checks in order to fully exercise all functions, operations and tape. After repairing, service the set as follows:

1) Cleaning of Drum Assembly

❶ Gently apply lens tissue soaked in ethyl alcohol to the Drum assembly.
Clean the Upper Drum assembly while rotating it slowly counterclockwise(by hand).

Note : Do not rotate the motor by power or rotate the Upper Drum assembly clockwise.
Also, the Head tip will be damaged if the lens tissue is moved in a perpendicular direction.
Be sure to follow these instructions when cleaning the Drum Ass'y

2) Cleaning of Tape Path

❶ In EJECT mode, clean the tape path system(from Pole Tension P1 through Pole Review P7, Pinch Roller and Capstan Shaft) and the Lower Drum. Using the lens tissue soaked in ethyl alcohol.

Note : Make sure that no oil or grease adheres to the lens tissue.

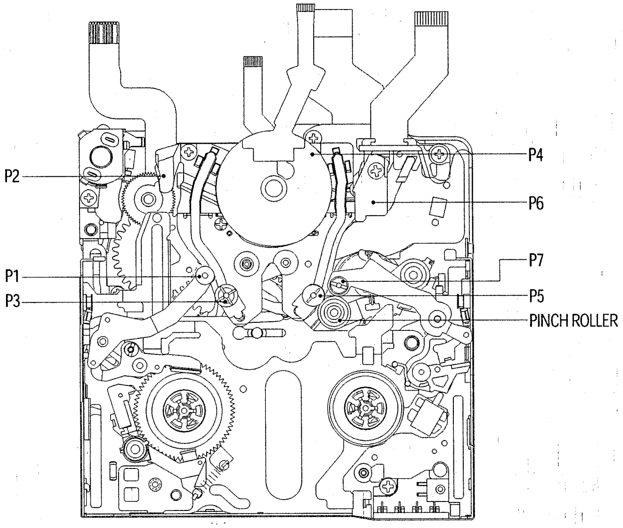


Fig. 4-3

3) Periodic Maintenance and Check List

When overhauling, refer to the following table.

<Table 4-2>

Maintenance checks		Hours of use (H)										Remark
		500	1000	1500	2000	2500	3000	3500	4000	4500	5000	
Tape path system	Cleaning of tape path	0	0	0	0	0	0	0	0	0	0	
	Cleaning and degaussing of drum ass'y	0	0	0	0	0	0	0	0	0	0	
DRIVING SYSTEM	Capstan Shaft		Δ		Δ		Δ		Δ		Δ	- Never let oil get on to the tape path surface.
	Gear Capstan		Δ		Δ		Δ		Δ		Δ	
	Gear Pully Shaft		Δ		Δ		Δ		Δ		Δ	
	Belt Timing		◆		◆		◆		◆		◆	
	Motor Loading		◆		◆		◆		◆		◆	
Performance	Abnormal Noise		◆	◆	◆	◆	◆	◆	◆	◆	◆	
Confirmation	Back Tension		◆		◆		◆		◆		◆	
	Brake System		◆		◆		◆		◆		◆	
	PB, REV Torque Measurement		◆		◆		◆		◆		◆	

O : Cleaning Δ : COil ◆ : Confirmation

- ◆ When lubrication bearings, be sure to keep the oil free of dust. (Oil contaminated with dust might cause the bearings to wear out or seize.)
- ◆ A "drop"of oil is defined as the amount attached to the tip of a Ø 2mm stick as shown in Fig. 4-4.

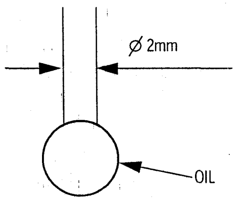


Fig. 4-4

4-4 Mechanical Check and Adjustment

4-4(a) Tension Regulator Adjustment

1) Disassembly

❶ For the removal of the Housing Ass'y.

2) Adjustment

❶ Set to PLAY mode (without cassette tape).

❷ Check that the distance between external surface of Holder Loading and center of Arm Tension is 0~1mm. (Fig. 4-5)

❸ If necessary, proceed to step 4.

❹ If the Arm Tension is located inside the position specified, adjust the Band Adjust Tension toward arrow A. (If it is located outside, adjust toward arrow B.)

Note : Check if the Arm Tension can be moved toward arrow C in PB mode.

3) Reassembly

❶ For the removal of the Housing Ass'y.

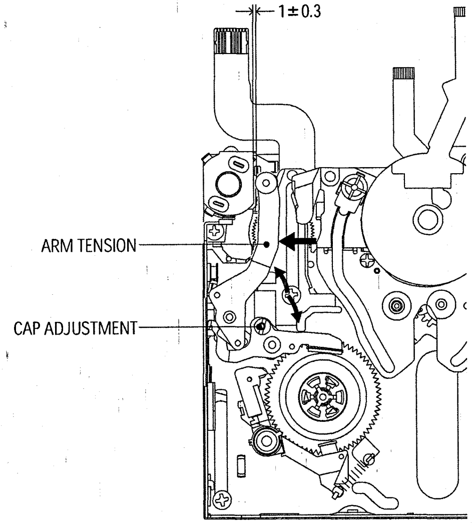


Fig. 4-5

4-4(b) Back Tension Confirmation

1) Set up the cassette-torque tape.
2) Set to CAMERA mode, push the EDIT(+) KEY and check that the torque value of Reel S is 4.5±0.5g.cm.

4-4(c) PB/REV Torque check

1) Set up the cassette torque tape.
2) Set to CAMERA mode, Push the EDIT(+)Key and check that the torque value of Reel T is 7.5±3g.cm.
3) Push the EDIT(-) Key and check that the torque value of Reel S is 12.5±3g.cm.
4) If necessary, replace the defective Gear pully Ass'y.

4-4(d) Reel Table Height Check

1) Removal

❶ For the removal of the Housing Ass'y.
❷ For the removal of the Idler Ass'y.

2) Check

❶ Using vernier calipers, check the following distances : From the upper surface of the PCB Reel to the resting surfaces of Reel S, T table should each be 3.9±0.1mm.

3) Mounting

❶ For the removal of the Idler Ass'y.
❷ For the removal of the Housing Ass'y.

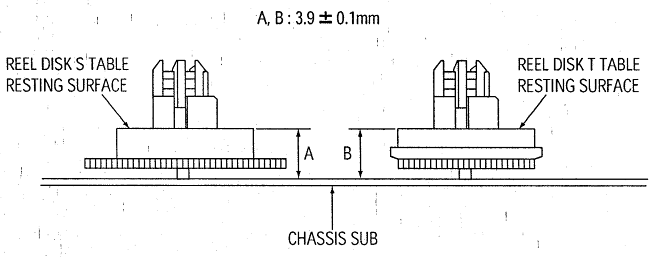

A, B : 3.9 ± 0.1mm
REEL DISK S TABLE RESTING SURFACE
REEL DISK T TABLE RESTING SURFACE
A
B
CHASSIS SUB

Fig. 4-6

4-5 Tape Path Adjustment

4-5(a) Preparation for Adjustment

❶ Clean the tape running surface(Poles, Drum, Capstan Shaft, Pinch Roller).
❷ Observe the PB RF signal and Head Switching Pulse on an oscilloscope.
❸ Play back the alignment tape.
❹ Check that the waveform of the RF signal is flatat both inlet and outlet(A in Fig. 4-7). If not flat (B or C in Fig. 4-7), do adjustments 4-5(b) through 4-5(d).

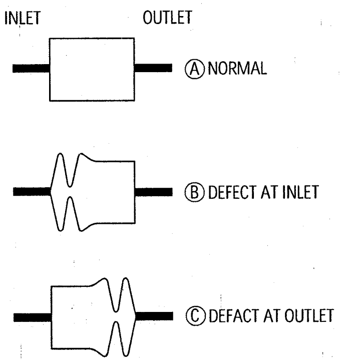

INLET
OUTLET
Ⓐ NORMAL
Ⓑ DEFECT AT INLET
Ⓒ DEFACT AT OUTLET

Fig. 4-7

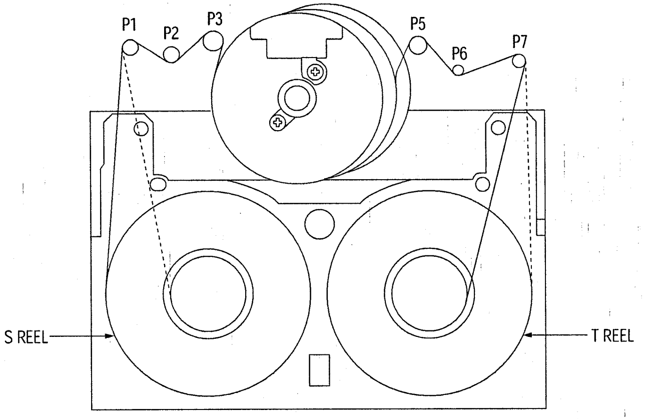

P1
P2
P3
P5
P6
P7
S REEL
T REEL

Fig. 4-8

4-5(b) Tracking adjustment

❶ Play Back the alignment tape.
❷ Turn P3 to flatten the waveform at the inlet.
❸ Turn P5 to flatten the waveform at the outlet.

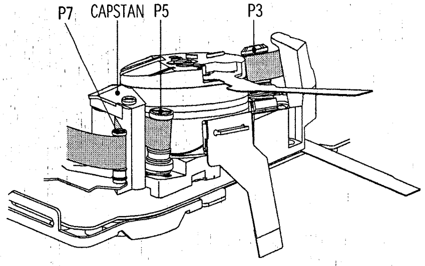


Fig. 4-9

4-5(c) P7 Adjustment

❶ Play back the alignment tape, and confirm that the tape is not twisted between the Guide Roller T and Capstan. (If the tape is twisted, turn P7, Fig. 4-10)
❷ Set to REV mode and observe the outlet waveform of PB RF signal. (Fig. 4-11)
❸ If the outlet waveform is out-of-spec, turn P7 counterclockwise, and redo steps 1 and 2.

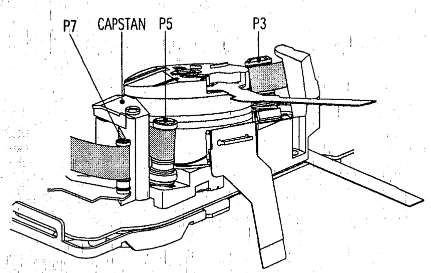


Fig. 4-10

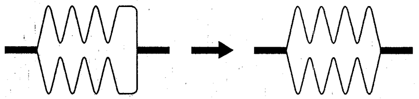
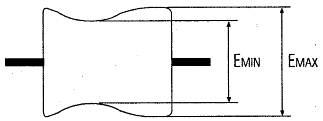


Fig. 4-11

4-5(d) Check After Adjustment

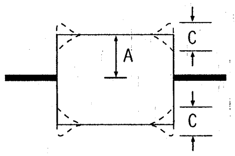
1) Tracking Check

❶ Play back the alignment tape.
❷ Confirm that the minimum amplitude value(E min.)is 80% of the maximum value(E max.) or larger. (Fig. 4-12)
❸ Confirm that no large fluctuation occur on the waveform. (Fig. 4-13)



$$\frac{E_{MIN}}{E_{MAX}} \geqq 80(\%)$$

Fig. 4-12



$$C \leqq \frac{1}{8} A$$

Fig. 4-13

2) CUE and REV Check

❶ Play back the alignment tape, and set to REV mode.
Confirm that the waveform peaks have a uniform Pitch.(Fig. 4-14 A)
If the track pitch is not uniform, do section 4-5(b) (Tracking adjustment) and 4-5(c) (P7 adjustment).
❷ Set to CUE mode.
Confirm that the waveform peaks still have a uniform pitch. (Fig. 4-14 B)
If the track pitch is not uniform, do section 4-5(b) (Tracking Adjustment).

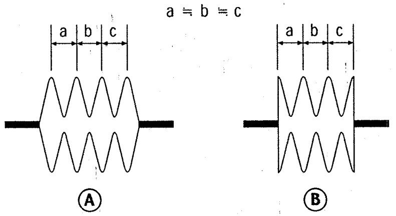


Fig. 4-14

3) Rise Time Check

❶ Play back the alignment tape.

❷ Set to playback mode, and confirm that the waveform of PB RF signal rises flat within 3 seconds.
Also confirm that the tape is not twisted or curled around the Pinch Roller. (Fig. 4-15)

❸ Run the tape in CUE/REV and FF/REW modes, then playback.
Confirm the waveform of PB RF signal rises flat within 3 seconds. Also confirm that the tape is not twisted or curled around the Pinch Roller.

❹ Repeat steps 2. and 3.

4) Tape Path Check

❶ In CUE and REV modes, check that the tape is not curled around the P1, P3, P5 upper flange and P7 upper/Lower flanges.

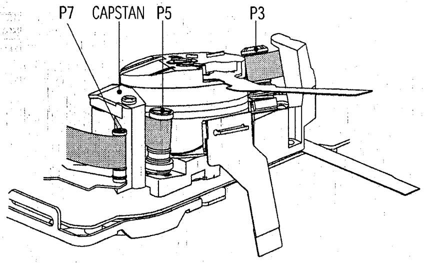


Fig. 4-15

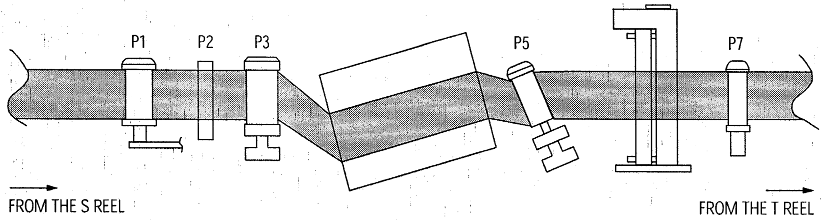


Fig. 4-16

MEMO

1. PCB Diagrams

Page
1-1 Main PCB - 1-2
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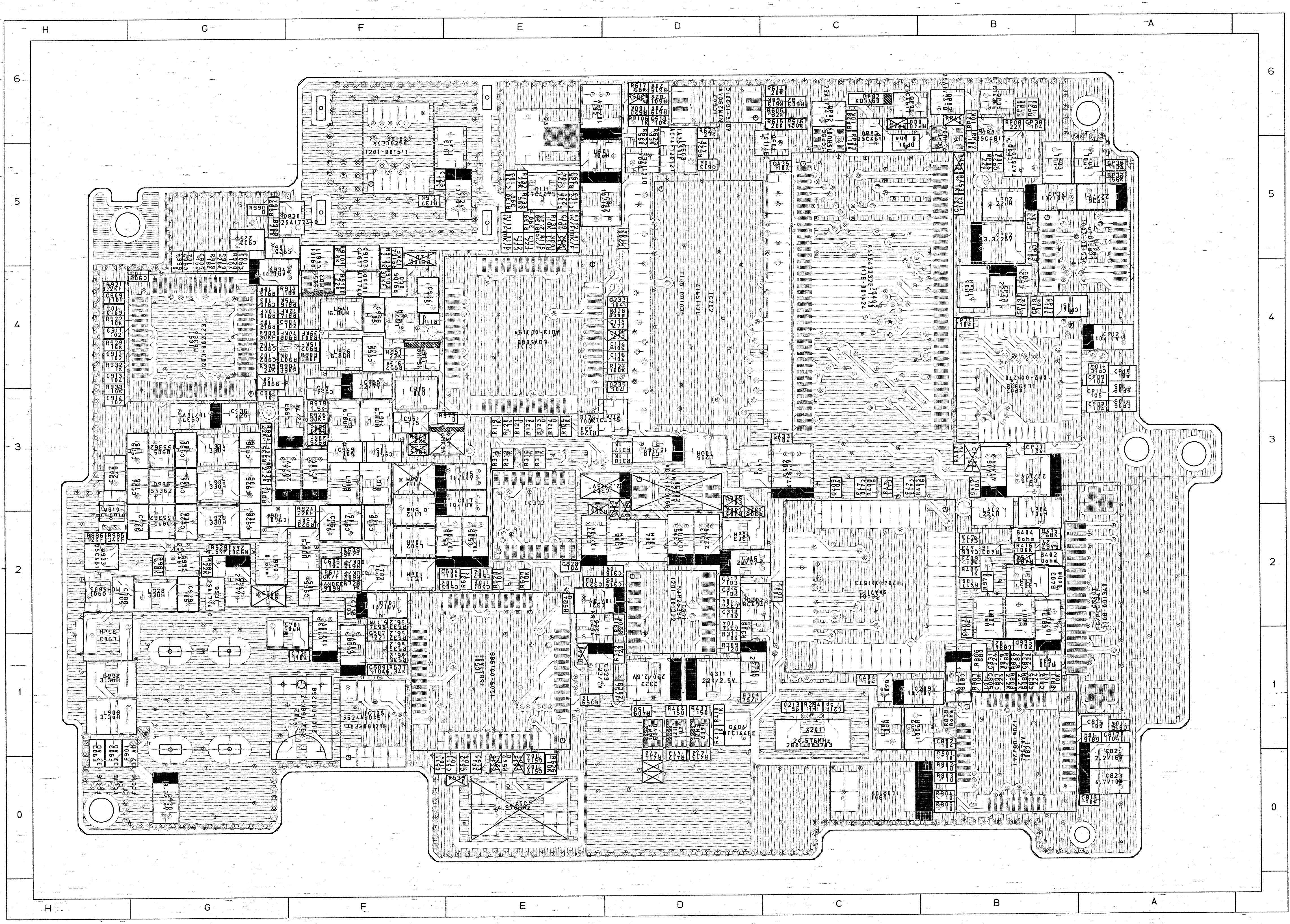
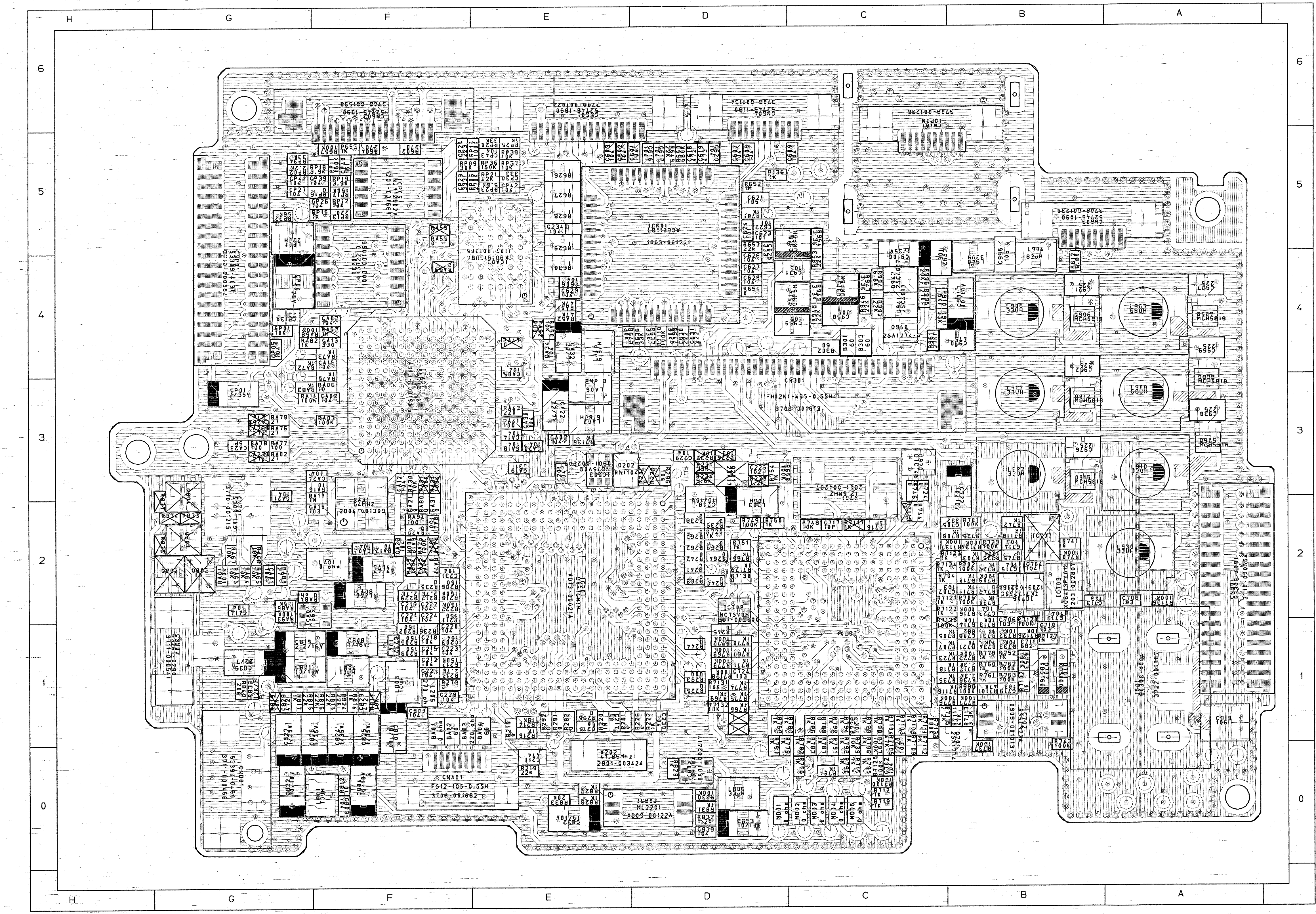
1-1 Main PCB

COMPONENT SIDE

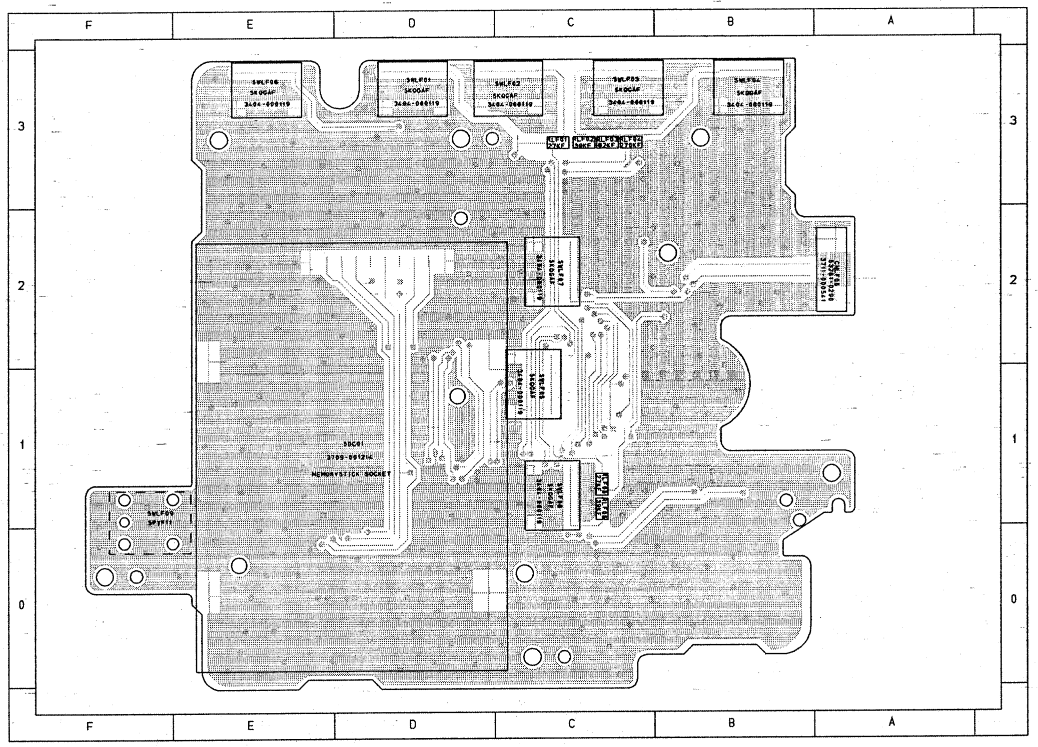

H
G
F
E
D
C
B
A
6
5
4
3
2
1
0

CONDUCTOR SIDE

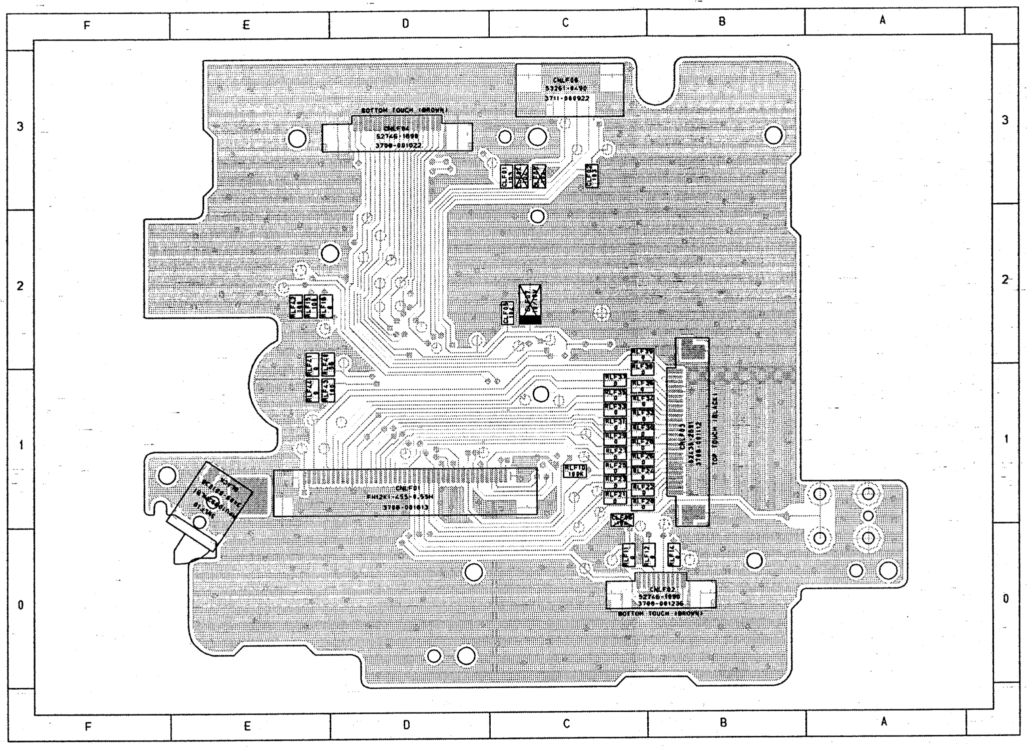

H
G
F
E
D
C
B
A
6
5
4
3
2
1
0
IC601
CN301
CNA01
FS12-105-0.5SH
3708-001662
ML2201

1-2 Left PCB

COMPONENT SIDE

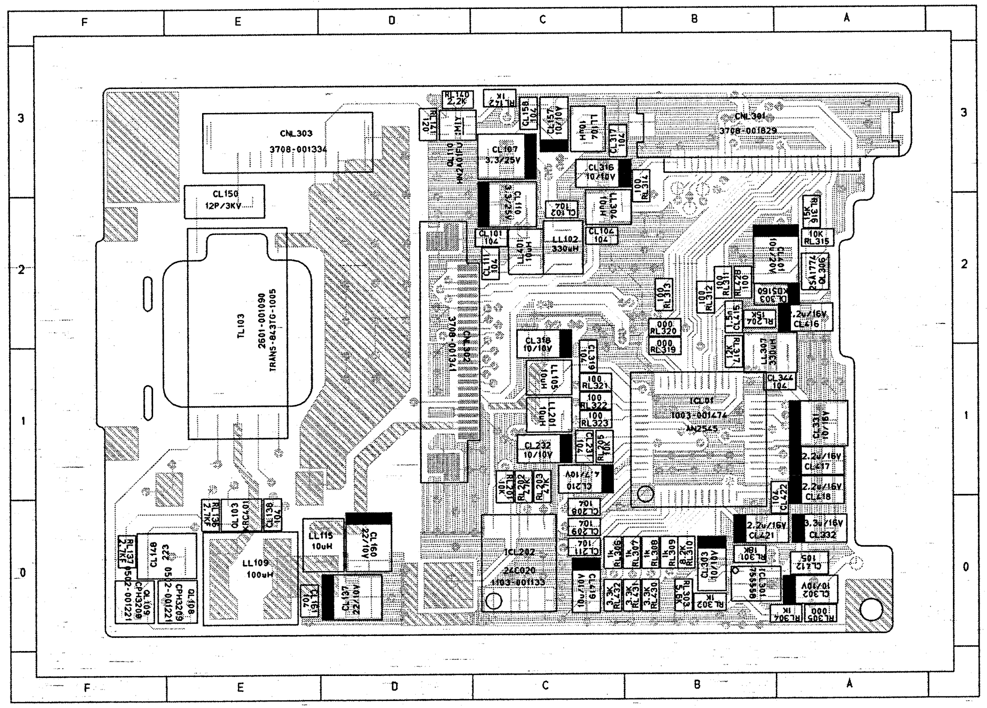

F
E
D
C
B
A
3
2
1
0
MEMORYSTICK SOCKET

CONDUCTOR SIDE

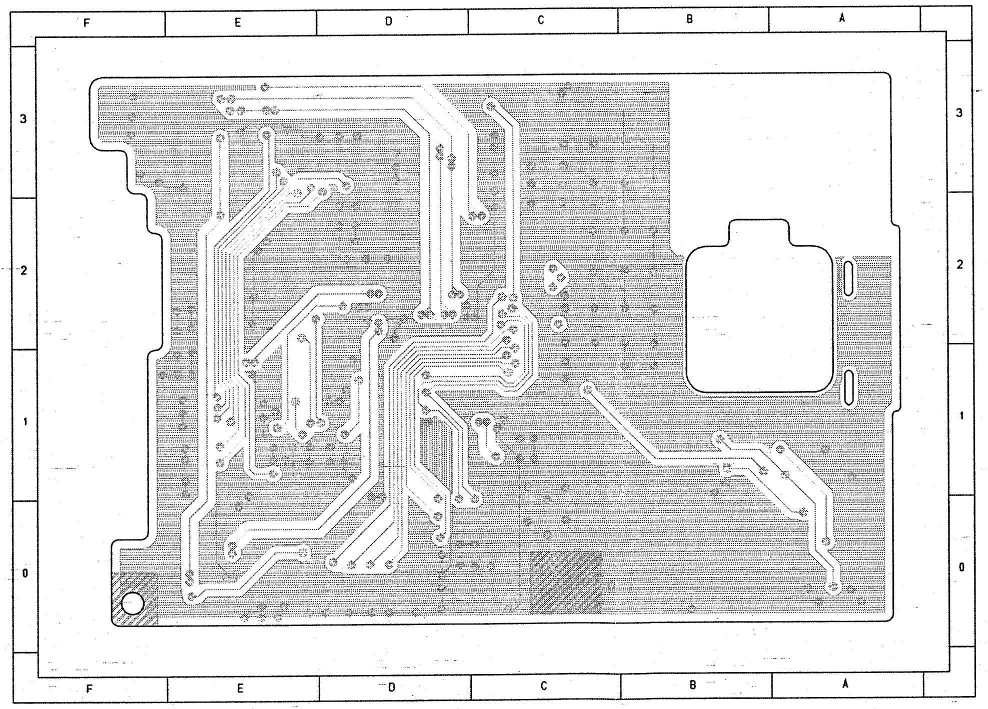

F
E
D
C
B
A
3
2
1
0
BOTTOM TOUCH (GROUP)

1-3 LCD PCB

COMPONENT SIDE

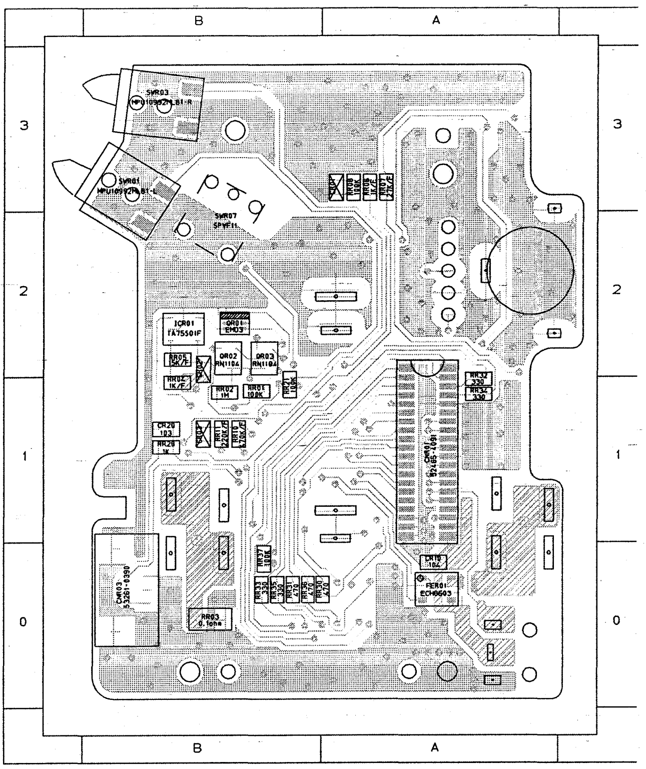

F
E
D
C
B
A
3
2
1
0
CNL303
3708-001334
CNL301
3708-001829
CL150
12P/3KV
TL103
ICL01
1003-001476
AN2545
ICL202
24C020
LL109
100uH
LL115
10uH

CONDUCTOR SIDE

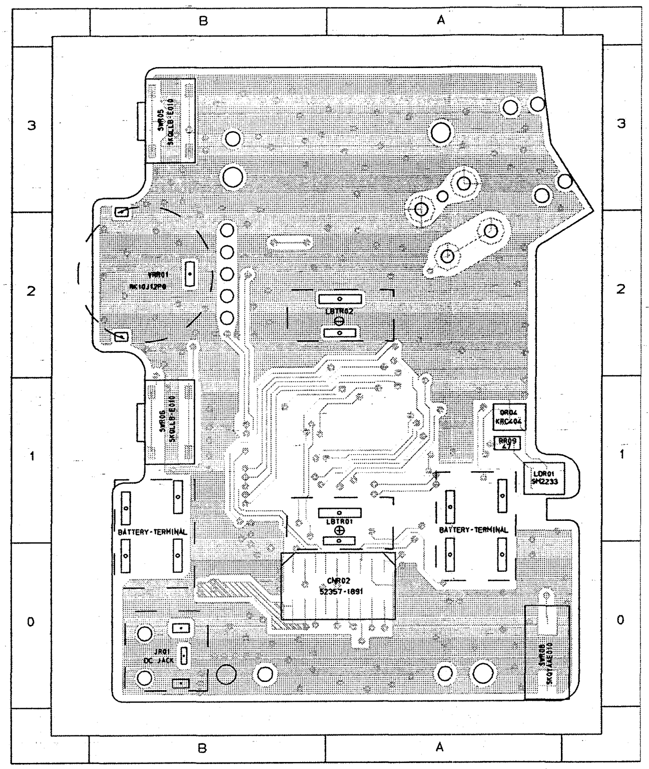

F
E
D
C
B
A
3
2
1
0

1-4 Rear PCB

COMPONENT SIDE

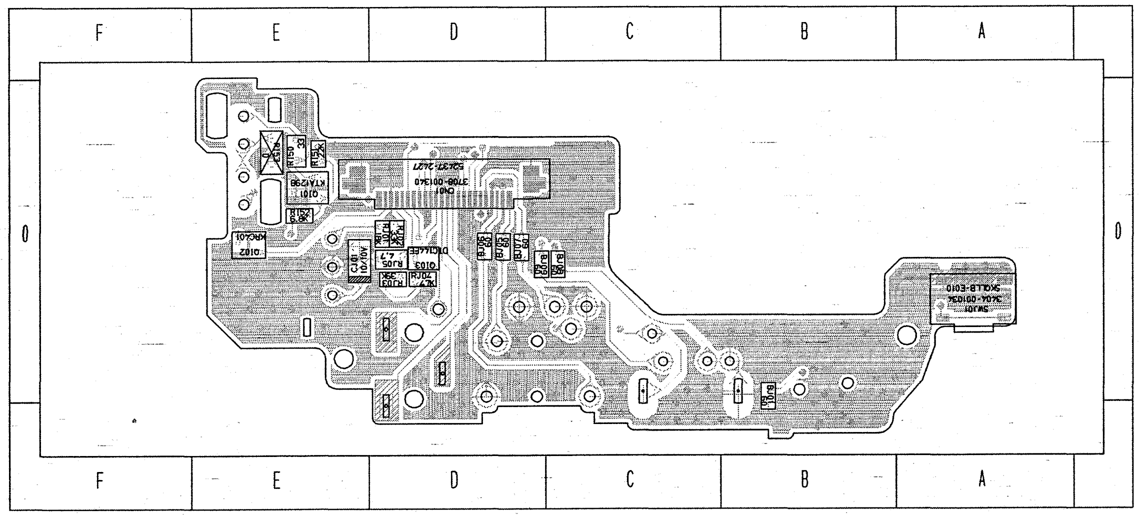


CONDUCTOR SIDE

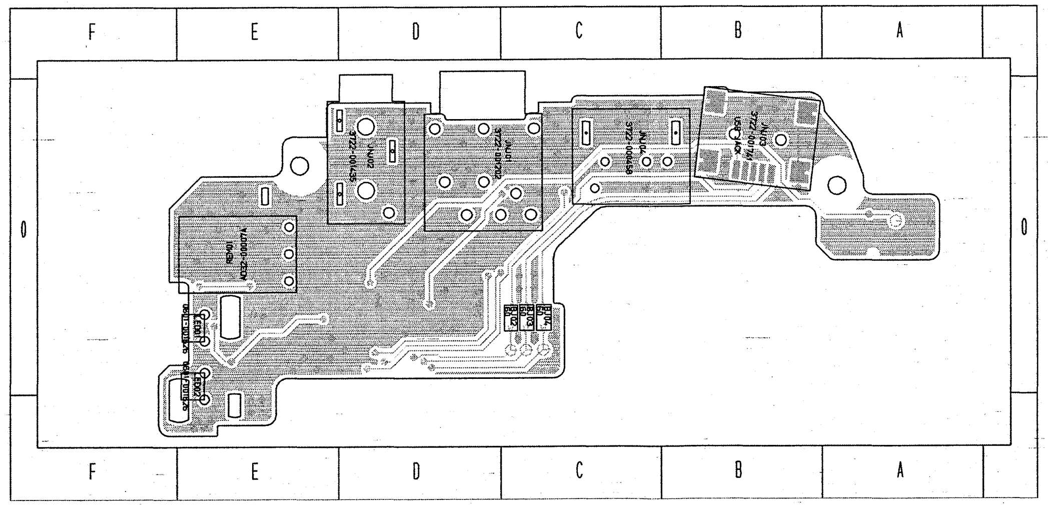

B
A
3
2
1
0
BATTERY-TERMINAL
BATTERY-TERMINAL
DC JACK

1-5 Jack PCB

COMPONENT SIDE

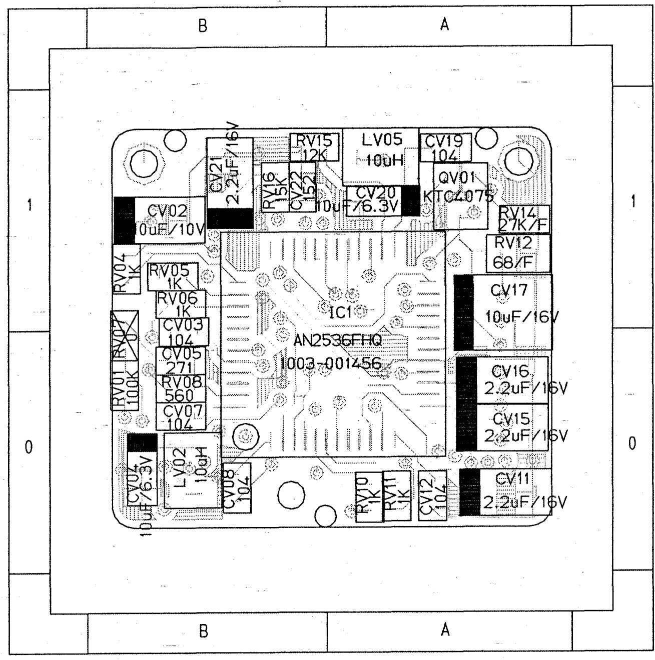


CONDUCTOR SIDE

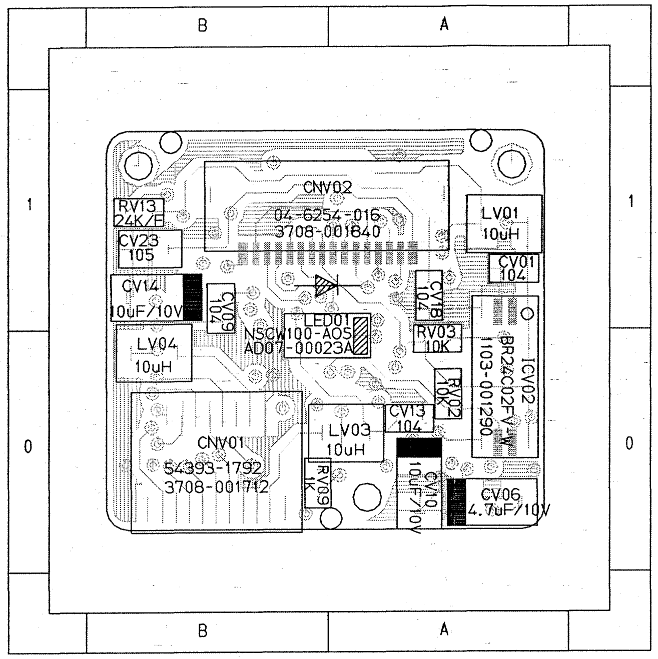


1-6 CVF PCB

COMPONENT SIDE

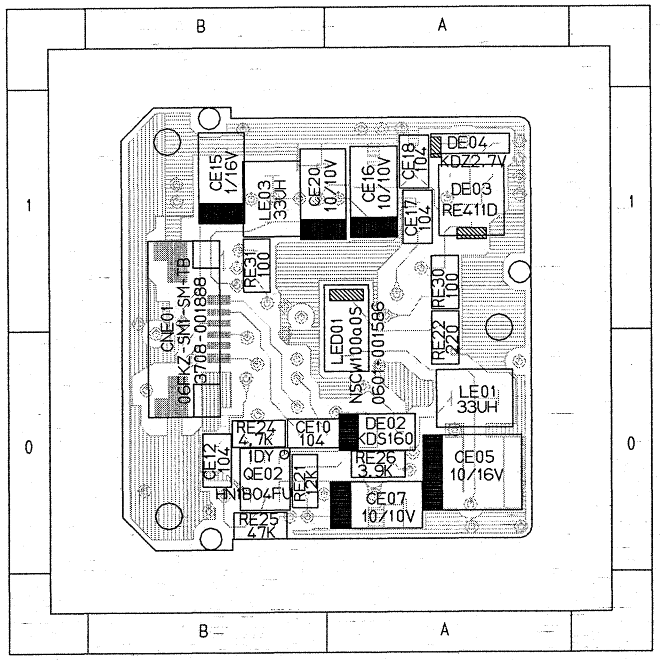

B
A
1
0
CV21
2.2uF/16V
RV15
12K
LV05
10uH
CV19
104
RV16
15K
CV22
152
CV20
10uF/6.3V
QV01
KTC4075
CV02
10uF/10V
RV14
27K/F
RV12
68/F
RV04
1K
RV05
1K
RV06
1K
RV07
0
CV03
104
CV05
271
RV08
560
CV07
104
RV01
100K
IC1
AN2536FHQ
1003-001456
CV17
10uF/16V
CV16
2.2uF/16V
CV15
2.2uF/16V
CV04
10uF/6.3V
LV02
10uH
CV08
104
RV10
1K
RV11
1K
CV12
104
CV11
2.2uF/16V

CONDUCTOR SIDE

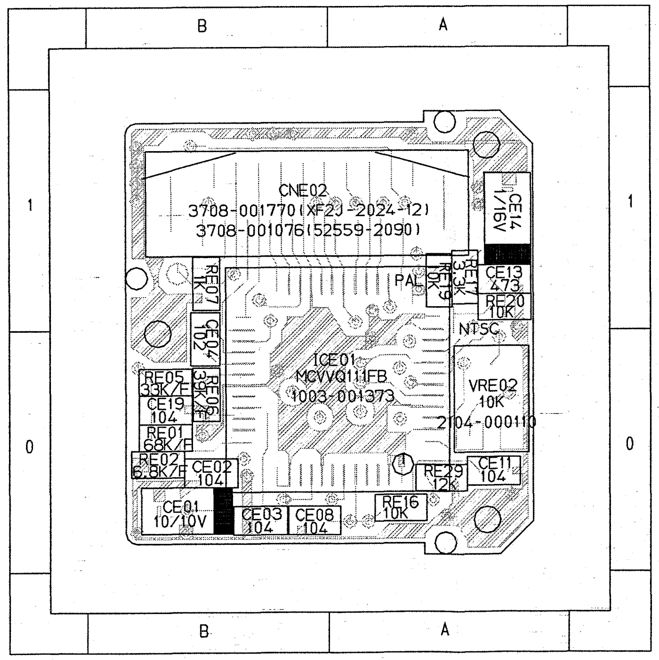

B
A
1
0
CNV02
04-6254-016
3708-001840
RV13
24K/F
CV23
105
LV01
10uH
CV01
104
CV14
10uF/10V
CV09
104
LED01
NSCW100-AOS
AD07-00023A
CV18
104
RV03
10K
ICV02
BR24C02FV-W
1103-001290
LV04
10uH
RV02
10K
CV13
104
LV03
10uH
CNV01
54393-1792
3708-001712
RV09
1K
CV10
10UF/10V
CV06
4.7uF/10V

1-7 EVF PCB

COMPONENT SIDE

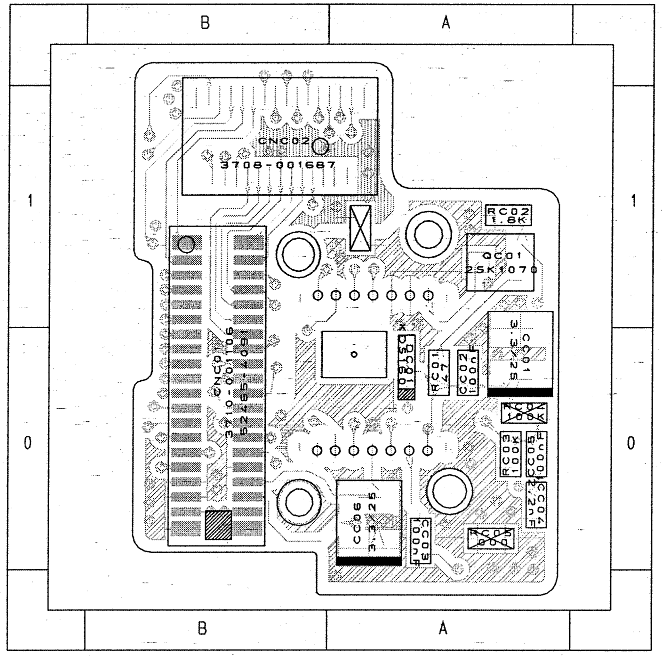

B
A
1
0
CE15
1/16V
LE03
33UH
CE20
10/10V
CE16
10/10V
CE18
104
DE04
KDZ2.7V
CE17
104
DE03
RE411D
RE31
100
CNE01
06FKZ-SM1-SM-TB
3708-001888
LED01
NSCW100a0S
0601-001586
RE30
100
RE22
220
LE01
33UH
RE24
4.7K
CE10
104
DE02
KDS160
CE12
104
1DY
QE02
HN1B04FU
RE21
12K
RE26
3.9K
CE05
10/16V
CE07
10/10V
RE25
47K

CONDUCTOR SIDE

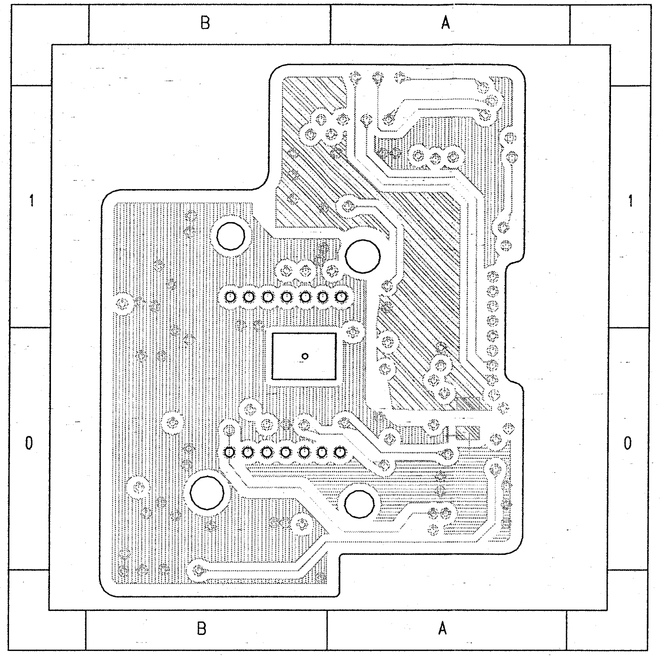

B
A
1
0
CNE02
3708-001770(XF2J-2024-12)
3708-001076(52559-2090)
CE14
1/16V
RE07
1K
RE19
10K
RE17
3.3K
PAL
CE13
473
RE20
10K
NTSC
CE04
102
ICE01
MCVVQ111FB
1003-001373
RE05
33K/F
RE06
39K/F
CE19
104
VRE02
10K
2104-000110
RE01
68K/F
RE02
6.8K/F
CE02
104
RE29
12K
CE11
104
CE01
10/10V
CE03
104
CE08
104
RE16
10K

1-8 CCD PCB

COMPONENT SIDE

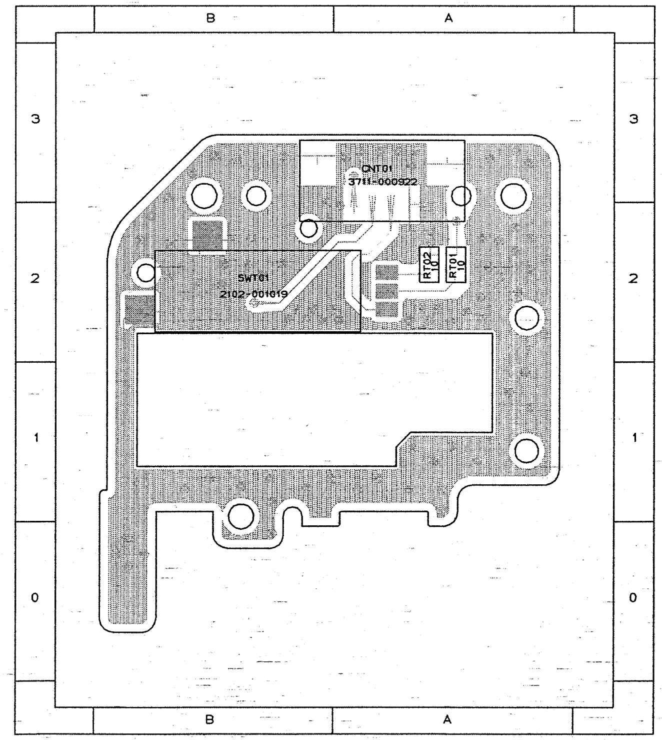

B
A
1
0
CNC02
3708-001687
CNC01
3710-001106
52465-4091
RC02
1.8K
QC01
2SK1070
DC01
DS160
RC01
47
CC02
100nF
CC01
3.3/25
RC04
100K
RC03
100K
CC05
100nF
CC04
2.2uF
CC06
3.3/25
CC03
100nF
RC05
000

CONDUCTOR SIDE

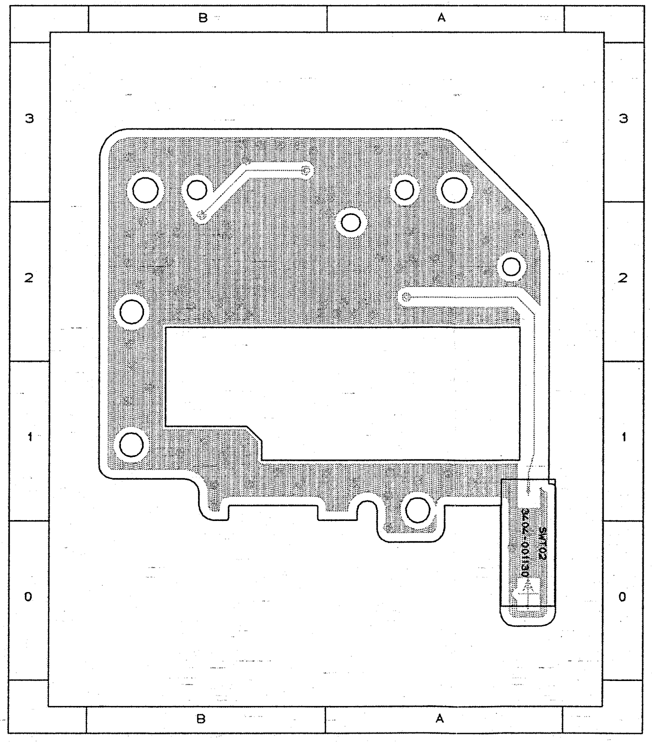


1-9 TOP PCB

COMPONENT SIDE


B
A
3
2
1
0
CNT01
3711-000922
SWT01
2102-001019
RT02
10
RT01
10

CONDUCTOR SIDE


B
A
3
2
1
0
SWT02
3404-001130